We repeat the following notice for the benefit of our readers who may have missed it in the October 4th issue.

Experienced Highway Construction Men

Needed for Service in France

[This Statement Is Authorized by Colonel Johnston, Commanding the 23rd Engineers.]

Men who have had experience in any branch of road construction are offered an opportunity to see early service in France in special road-building battalions of the United States Army by recruiting plans here announced. These battalions will be required to repair and maintain the highways near the fighting front, over which tremendous traffic is operated continuously. They will also build new strategic highways in the war zone. Consequently, these troops, all volunteers, will be in the thick of the greatest activities.

The new battalions are constituted as regular military units and as a part of the regular army organization. They are fully armed and will be required in emergencies to fight along with other troops. Generally, however, they will be ocupied with road work.

The battalions will form a part of the 23rd Regiment of Engineers of the new National Army. This regiment will eventually have a strength of about 10,500 men—more than an ordinary brigade—and will, so far as is at present known, be the largest in the army. It will be commanded by Col. E. N. Johnston, of the Corps of Engineers, U. S. A.

Many Worth-While Jobs

There will be more highly-paid and high-ranking non-commissioned officers in the regiment, it is believed, than in any other. There will, therefore, be more openings for men of education and practical experience than is usually the case.

The organization of the battalions is as nearly the same as that of large contracting forces as is feasible. Modern road-building machinery has been fully provided, including rock-crushing plants, steam shovels, road rollers, tractors, graders, motor trucks and pumps. A full line of dump wagons, wheel and drag scrapers and similar dirt-moving equipment also will be available. Shops for the repair and maintenance of all the plant and equipment will be operated close to the front.

Much of the plant used on road work in America is new to European engineers, while the methods also are quite different from those used tbroad. A great opportunity is thus offered to demonstrate what skilled Americans can do with modern equipment, and the regiment which is now being recruited must include men to operate the necessary construction plant, to man the shops and, as non-commissioned officers, to handle the forces.

Who Can Qualify

For the non-commissioned officer positions men are required who can qualify in private life in the following lines: Superintendents and assistant superintendents of highway, bridge and quarry work, of mechanical plant and of transportation; chief clerks, material men, stock men, timekeepers; foremen for concrete, road, bridge and quarry work; powder men, riggers, carpenters, iron workers, surveyors and draftsmen.

For the enlisted personnel it is desired to secure men skilled and experienced in one or more of the following occupations: Surveyors, draftsmen, clerks, stenographers, axmen, blacksmiths, blacksmiths' helpers, machinists, gas-engine operators and repairers, crusher operators, hand driller, drill runner (air drills), quarrymen, powdermen, masons, teamsters, pile-driver operators, concrete, form, road and bridge men; tractor operators (gasoline), grader operators (blading and elevating graders), bridge carpenters, motor-truck drivers, chauffeurs, cooks, motor-truck and automobile repair men, pipe fitters, electricians, horseshoers, tailors, shoemakers, musicians (bugle, fife or drum), mechanics, telephone operators, steamfitters, tool sharpeners, ditchers, boatmen (builders and caulkers), shovel runners (gasoline), barbers, veterinarians, French interpreters, bituminous road men, iron workers, riggers, general utility men capable of driving automobiles, motor trucks and all types of gasoline-driven machinery.

Any male American citizen between 18 and 40 years of age, and who has not actually been called by a local board in the draft, is eligible for enlistment in these special battalions, if acceptable physically. All men must first enlist as privates, the rate of pay being $33 per month and expenses. Men with the necessary experience may be assigned to special duties and given non-commissioned rank at rates of pay ranging from $40.20 to $96.00 per month and expenses. The latter include, for both privates and non-commissioned officers, food, clothing, medical attendance and transportation. Those who enlist will be eligible immediately for promotion, acording to their ability and as openings occur. Men who are specially well qualified and recommended will be given definite promise of advancement to higher grades when their enlistment is authorized.

Officers are Specialists

Colonel Johnston, who will command the regiment, was graduated from the United States Military Academy at West Point at the head of the class of 1901. After service on road and bridge work in the Philippine Islands and river and harbor work in the United States, he served as an instructor at West Point and as an assistant to the Chief of Engineers at Washington.

The first two battalions are commanded by Majors I. C. Moller and Henry H. Stickney. Major Moller received his engineering education in France. He has been engaged exclusively in highway work for the last ten years, and for three years has been chief engineer for an American company doing road work in all parts of the world. In this capacity he has been called upon to act as consulting engineer for the governments of almost every Central and South American republic.

Major Stickney was educated at Clarkson College of Technology, Potsdam, N. Y. Since 1906 he has been engaged on state highway work in New York and on the New York State Barge Canal. He has also had considerable experience as consulting engineer in road and water-supply construction. He is a graduate of the Engineer Officers' Training School at Fort Leavenworth and a member of the New York State National Guard.

Captain F. S. Skinner, regimental adjutant, is a graduate of the United State Military Academy. Thus the regiment will be under the direction of those who have fully demonstrated their ability in highway and construction work.

Full information regarding steps that must be taken to enlist in this regiment may be secured from the Commanding Officer, 23d Engineers, National Army, 1419 F St., Washington, D. C., by mailing the following information to him.

Fill in This Form, by Typewriter, if possible, and Mail Today, to
COMMANDING OFFICER, 23rd ENGINEERS, NATIONAL ARMY,
1419 F Street, Washington, D. C.

(1) Name ..... (2) Address .....

(3) Age ..... (4) Nationality ....

(5) Married or single..... (6) Have you been called in the draft?.....

(7) Will you enlist for period of the War?..... (8) State briefly your road-building or other construction experience .....

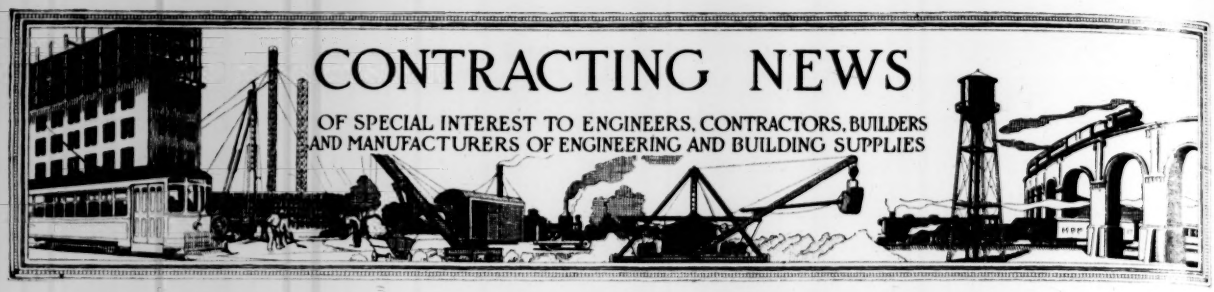
.....

(9) What machinery can you operate?.....

(10) Your present or a former employer must certify to your qualifications by signing here.....

.....

SIGNATURE OF EMPLOYER EMPLOYER'S ADDRESS FOR TELEGRAMS


CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Proposals

For Proposals Advertised See Pages 43 to 45 Inclusive

Bids Close		See Eng. News-Record
WATER-WORKS		
Oct. 29.	Portland, Ore.	Oct. 11
Oct. 29.	Langdon, N. D.	Oct. 25
Oct. 31.	Hoskin, Neb.	Oct. 25
Nov. 1.	Galveston, Tex.	Oct. 25
Nov. 7.	Tonawanda, N. Y.	Oct. 18
SEWERS		
Oct. 29.	Glendale, Ariz.	Oct. 18
Oct. 31.	Seguin, Tex.	Oct. 25
Nov. 1.	Newark, N. J.	Oct. 25
Nov. 1.	Grand Mound, Ia.	Oct. 25
Nov. 1.	New York, N. Y.	Oct. 25
Nov. 2.	Appleton, Wis.	Oct. 25
Nov. 3.	Altamont, N. Y. Adv. Oct. 25.	Oct. 25
Nov. 5.	Cheyenne, Wyo.	Oct. 25
BRIDGES		
Nov. 2.	Richmond, Va. Adv. Oct. 18 and 25.	Oct. 18
Nov. 6.	Oswego, Kan. Adv. Oct. 18 and 25.	Oct. 18
Nov. 6.	Dallas, Tex. Adv. Oct. 11 and 18.	Oct. 11
Nov. 6.	Little Falls, Minn.	Oct. 18
Nov. 12.	Minneapolis, Minn.	Oct. 25
STREETS AND ROADS		
Oct. 29.	Indiana	Oct. 11
Oct. 29.	Highland Park, N. J. (New Brunswick P. O.)	Oct. 18
Oct. 29.	Spartanburg, S. C.	Oct. 25
Oct. 29.	Arkansas	Oct. 25
Oct. 29.	St. Paul, Minn.	Oct. 25
Oct. 29.	Lisbon, O.	Oct. 25
Oct. 29.	Brooklyn, N. Y.	Oct. 25
Oct. 30.	Jersey City, N. J.	Oct. 25
Nov. 1.	Columbus, O.	Oct. 25
Nov. 1.	Raymond, Miss.	Oct. 25
Nov. 1.	Steubenville, O.	Oct. 25
Nov. 5.	California	Oct. 25
Nov. 5.	Bloomfield, N. J.	Oct. 25
Nov. 5.	Pikeville, Ky.	Sept. 27
Nov. 5.	Kansas City, Kan.	Oct. 18
Nov. 5.	Coffeeville, Miss. Adv. Oct. 18 and 25.	Oct. 18
Nov. 5.	Fayetteville, W. Va.	Oct. 18
Nov. 6.	Ft. Pierce, Fla.	Oct. 25
Nov. 6.	Goldendale, Wash.	Oct. 25
Nov. 6.	West Orange, N. J.	Oct. 18
Nov. 6.	Indiana	Oct. 11
Nov. 6.	Morgantown, W. Va. Adv. Oct. 11.	Oct. 11
Nov. 6.	Tallahassee, Fla.	Oct. 25
Nov. 6.	San Diego, Cal.	Oct. 25
Nov. 6.	Waterville, Wash.	Oct. 25
Nov. 7.	Jefferson City, Mo.	Oct. 25
Nov. 8.	Pennsylvania Adv. Oct. 18 and 25.	Oct. 18
Nov. 8.	Morristown, Pa. Adv. Oct. 25.	Oct. 25
Nov. 13.	Prestonsburg, Ky.	Oct. 25
Nov. 14.	Minnesota	Oct. 25
Nov. 19.	Seattle, Wash.	Oct. 25
Nov. 22.	Hindman, Ky.	Oct. 25
Nov. 23.	Kendallville, Ind.	Oct. 25

Bids Close		See Eng. News-Record
EXCAVATION AND DREDGING		
Oct. 29.	Duluth, Minn.	Oct. 18
Oct. 30.	Mankato, Minn.	Oct. 25
Nov. 1.	Papillion, Neb.	Oct. 16
Nov. 2.	Albany, N. Y. Adv. Oct. 11 to 25	Oct. 11
Nov. 2.	Redwood Falls, Minn.	Oct. 25
Nov. 2.	Algona, Ia.	Oct. 25
Nov. 2.	Sibley, Ia.	Oct. 11
Nov. 3.	Winamac, Ind.	Oct. 25
Nov. 7.	Lincoln, Neb.	Oct. 25
Nov. 8.	Harrisonville, Mo.	Oct. 25
Nov. 9.	St. Cloud, Minn.	Sept. 27
BUILDINGS		
Oct. 29.	Trenton, N. J.	Oct. 25
Oct. 30.	Columbia, S. C.	Oct. 18
Oct. 31.	Davenport, Ia.	Oct. 18
Nov. 1.	Lawrence, Kan.	Oct. 18
Nov. 1.	Cleveland Heights, O. (Warrensville P. O.)	Oct. 25
Nov. 1.	Charleston, W. Va.	Oct. 25
Nov. 1.	Detroit, Mich.	Oct. 25
Nov. 2.	Lakefield, Minn.	Oct. 18
Nov. 15.	Northampton, Mass.	Oct. 25
Nov. 25.	Middletown, Mass.	Oct. 4
Dec. 1.	Norfolk, Va.	Sept. 13
FEDERAL GOVERNMENT WORK		
Oct. 28.	Post Office — Waterloo, N. Y.	Sept. 20
Oct. 29.	Buildings—El Cayey, P. R.	Oct. 11
Oct. 29.	Buildings—Grand Isle, La. Adv. Oct. 11.	Oct. 11
Oct. 29.	Distributing System — Charleston, W. Va.	Oct. 25
Oct. 30.	Metal Work, etc. — Key West, Fla. Adv. Sept. 6 and 13.	Sept. 6
Oct. 30.	Post Office—Farmville, Va.	Sept. 27
Oct. 31.	Power House — Brooklyn, N. Y.	Oct. 4
Oct. 31.	Post Office—Hollidaysburg, Pa. Adv. Oct. 4.	Oct. 4
Oct. 31.	Levee Work — St. Louis, Mo.	Oct. 18
Nov. 1.	Lookout—Omaha, Neb. Adv. Oct. 11.	Oct. 11
Nov. 1.	Post Office—Kenton, O.	Sept. 27
Nov. 1.	Construction Materials — Detroit, Mich. Adv. Oct. 4.	Oct. 4
Nov. 2.	Maneuver Boats — Cincinnati, O. Adv. Oct. 4 to 25.	Oct. 4
Nov. 2.	Post Office — Valparaiso, Ind.	Oct. 4
Nov. 3.	Dredging—San Diego, Cal. Adv. Oct. 25.	Oct. 25
Nov. 5.	Post Office — Burlington, N. C.	Oct. 4
Nov. 5.	Tank and Tower—Philadelphia, Pa.	Oct. 25
Nov. 5.	Steel Tower — Charleston, S. C.	Oct. 25
Nov. 5.	Steel Tower—Norfolk, Va.	Oct. 25
Nov. 6.	Bridge—Towaoc, Colo.	Oct. 18
Nov. 7.	Buildings — Elbowoods, N. D.	Oct. 18
Nov. 8.	Levee Work — Vicksburg, Miss. Adv. Oct. 18 and 25.	Oct. 18
Nov. 8.	Piers, etc.—Detroit, Mich. Adv. Oct. 11 to 25.	Oct. 11
Nov. 9.	Post Office—Forsyth, Ga.	Oct. 11
Nov. 13.	Post Office—Harrisonville, Mo.	Oct. 11
Nov. 14.	Post Office—Austin, Tex.	Oct. 11
Nov. 15.	Canals—El Paso, Tex. Adv. Oct. 18.	Oct. 18
Nov. 16.	Maneuver Boats — Wheeling, W. Va. Adv. Oct. 18.	Oct. 18

Bids Close		See Eng. News-Record
Nov. 19.	Fitting out Cranes—Washington, D. C.	Oct. 18
Nov. 19.	Shipbuilding Ways — Brooklyn, N. Y.	Oct. 25
Nov. 20.	Post Office—Caribou, Me.	Oct. 18
Nov. 22.	Post Office—Basin, Wyo.	Oct. 25
Nov. 23.	Post Office — Woodbury, N. J.	Oct. 25
Nov. 26.	Dry Dock Crane, Washington, D. C.	Oct. 25
Nov. 27.	Post Office—Chapel Hill, N. C.	Oct. 25
Nov. 28.	Post Office — Bellefourche, S. D.	Oct. 11
MISCELLANEOUS		
Oct. 30.	Piers—Buffalo, N. Y.	Oct. 25
Oct. 30.	Elevated Railway—Philadelphia, Pa. Adv. Oct. 18.	Oct. 18
Oct. 30.	Fire Escapes — Dover, N. J. Adv. Oct. 18.	Oct. 18
Nov. 7.	Duct Line, New York, N. Y.	Oct. 25
Nov. 13.	Channel Improvements — Columbus, O. Adv. Oct. 25.	Oct. 25
Nov. 15.	Pumping Machinery — Brockton, Mass. Adv. Oct. 25.	Oct. 25
Nov. 15.	Flood Control—Dayton, O. Adv. Sept. 13 to Oct. 18	Sept. 13

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

Mass., Boston — City plans to improve water-works system in Franklin Park. About $30,000. E. F. Murphy, comr. pub. wks.

N. J., Wrightstown—Wrightstown Utilities Corp., incorporated with $150,000 capital stock plans to build water and electric systems here. Runyon & Carey, 843 Broad St., Newark, engrs.

Va., Danville—See "Industrial Works."

Va., Portsmouth—City having plans prepared by Schofield Eng. Co., engrs., Commercial Trust Bldg., Phila., improving water-works system.

N. C., Hickory — City to issue $15,000 bonds to build water-works system.

S. C., Fountain Inn—See "Sewers."

O., Ironton—City plans to issue $30,000 additional bonds to build water-works system. Cost of entire work, about $405,000. R. G. Howell, city engr.

O., Mt. Vernon — City to sell $15,000 bonds Nov. 1 to improve water-works system. R. S. Blum, city engr.

Ill., Grosse Point—(Official)—Village rejected bids for c.i. water pipe, etc. Noted Oct. 4.

Minn., Fergus Falls—City plans to sell $30,000 bonds to lay water and gas mains. H. Blegen, city engr.

Minn., Morris—City election soon to vote on bond issue to build water-works system.

Water-Works (Continued)

Kan., Arma—City having plans prepared by A. C. Moore, engr., Frisco Bldg., Joplin, Mo., for water-works system. About $25,000. Bond election soon.

Kan., Caldwell—(Official)—City rejected bids for water-works and electric-light improvements, including brick power station and concrete reservoir. Noted Oct. 4.

Kan., Ogden — City having plans prepared by G. P. Taylor, engr., Stockton, for improving water-works and sewerage systems. About $18,000.

S. D., Mitchell—City election Oct. 30 to vote on $125,000 bond issue to improve water-works. T. Eastcott, clk.

Ark., Little Rock—Arkansas Water Co., 112 East 4th St., plans to improve water-works system, including remodeling pump to 5,000,000-gal. capacity, replacing water mains, etc. About $100,000.

Tex., Waco—City soon lets contract 5,000,000-gal. reservoir on Trice Hill. About $275,000. N. Werinskiold, 409 Hughes Bldg., Dallas, engr. Noted Aug. 2.

Okla., Guthrie—See "Sewers."

Okla., Miami—City voted $45,000 bonds to extend water mains. A. L. Sailors, supt. Noted Oct. 4.

Okla., Okmulgee—See "Sewers."

Wash., Peshastin—City election Oct. 27 to vote on $125,000 bond issue to extend water-works system.

Ore., Richland—City soon lets contract building water-works system. P. H. Dater, Chamber Commerce Bldg., Portland, engr. Noted May 3.

Cal., Tropico—(Official)—City at recent election defeated $50,000 bonds to build water-works system. A. Campbell, supt. Noted Oct. 4.

BIDS DESIRED

Mich., Lakeview—(Official)—Until Nov. 15, by village for water-works system, including steel tank and tower, motor and pump. About $11,500. F. L. Stebbins, village pres. Noted Oct. 11.

Neb., Hoskins—Until Oct. 31, by City, for water-works system. About $10,000. H. T. Tracy, 11 Norfolk Natl. Bank Bldg., Norfolk, engr.

N. D., Langdon—Until Oct. 29, by City, installing water-works and sewerage systems. J. Sheehan, clk. Noted June 28.

Tex., Galveston—Until Nov. 1, by City, for repairs to Alta Loma Pumping Sta. J. D. Kelley, secy. Stowe & Stowe, 311½ 22nd St., archts.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Wis., Reedsburg**—City let contract installing water and sewer mains in portions North and South Water and Vine Sts., to Sweeney Bros., Reedsburg, $27,627.

★**Tex., Lockney**—(Official)—City let contract water-works system, including 9200 ft. 6-8in. c. i. pipe, 2½ tons specials, 75,000 gal. tank and tower, etc. to J. N. Jordan & Co., Plainview. Noted Oct. 11.

Ont., Hamilton—City received low bids installing machinery in Beach Pumping Sta., from Turbine Equipment Co., Ltd., C. P. R. Bldg., steam turbine pumps and centrifugal pumps, $52,517 and $22,420 respectively; Babcock & Wilcox, Ltd., Traders Bank Bldg., boilers and insulation, $16,950 and $605; Canadian Westinghouse Co., Ltd., Traders Bank Bldg., motors, $16,620; Canadian General Electric Co., Ltd., King and Simcoe Sts., transformers, switchboard and apparatus, $14,010 and $4990; Allan General Supplies, 205 Yonge St.; Venturi meters, $3715, all contractors of Toronto. Noted Aug. 16.

SEWERS

Proposed Work

N. J., Glen Ridge—Town plans to build sewage disposal plant.

N. J., Westfield—Town plans to improve trunk line sewerage system for Rahway Valley watershed. About $50,000. A. W. Vois, engr.

Pa., Franklin—Council passed ordinances to build storm sewers in portions Alcorn and Siverly Aves. and Wayne St.; also sanitary sewers in portions Alcorn, Siverly, Keith, Perce, Carson, and Kramer Aves., 5th, Wayne and Martin Sts., also in all of 10th Ward. J. Snow, city engr.

Pa., Pittsburgh — Council passed ordinances to build sewers in portion Comet Way, Connor, and Haverhill Sts. R. Swan, city engr.

Va., Danville—See "Industrial Works."

S. C., Fountain Inn—City voted $75,000 bonds to build sewerage and water-works systems. F. W. Wellborn, clk.

Ky., Norwood—Council passed ordinance to issue $16,000 bonds to build sanitary sewers in Franklin Ave. and Sheridan Dr.

O., Ashtabula—City plans sanitary sewer in portions Samuel St. L. A. Amsden, city engr.

O., Lorain—City lets contract about Oct. 30 for sanitary sewers in portions various streets. C. M. Osborne, city engr. Noted Sept. 13.

O., Youngstown — Youngstown Sheet & Tube Co., Stambaugh Bldg., plans to build 100 residence sewers and streets improvements here. About $500,000. United Constr. Co., Title Guaranty Bldg., St. Louis, Mo., engrs.

Ind., Anderson—City plans to build sewers in portions 3rd and Sycamore Sts. W. J. Shearer, city engr.

Ind., Laporte—(Official)—City does not plan to install southside trunk sewerage system, as stated in our issue of Oct. 4.

Ia., Davenport—City sold $142,000 bonds to build storm and sanitary sewers. R. E. Sowistowsky, city engr.

Ia., Sioux City—City soon lets contract building sanitary sewers in Lowell Ave., Chambers, 23rd, and 5th Sts. T. H. Johnson, city engr.

Kan., Newton—City having plans prepared by Black & Veatch, engrs., 507 Inter-State Bldg., Kansas City, Mo., for sewage disposal plant.

Kan., Ogden—See "Water-Works."

Neb., Omaha—City plans to build sewers in portions Mormon, South Omaha, 25th, Pacific, Pierce, 26th, and H Sts. About $172,000. Will also issue $400,000 additional bonds in January for sewers. J. A. Bruce, city engr. Noted Sept. 27.

Tex., Waco—City had plans prepared by P. Trevino, engr., San Antonio, for sewage disposal plant. About $182,000. Noted May 17.

Okla., Guthrie—City voted $32,000 bonds to extend sewerage and water-works systems. H. P. Cook, comr. pub. utilities.

Okla., Miami—City voted $80,000 bonds to build storm water sewers and $20,000 to extend sanitary sewers. Noted Oct. 4.

Okla., Okmulgee—City election Oct. 30 to vote on $535,000 bond issue to extend sewerage and water-works systems. Noted Aug. 30.

BIDS DESIRED

N. Y., Altamont—(Official)—Until Nov. 3, by Bd. Village Trustees, for sewerage system and sewage disposal plant. C. Martin, clk. Noted Aug. 16. Advertised in this issue.

N. Y., New York—Until Nov. 1, by D. Mathewson, boro. pres. (Bronx Boro.), constructing sewers and appurtenances in portions Rhinelander, Muliner, Matthews, Ldyig, Wallace, Bronxdale, Neill Hunt and Cruger Aves. and Sagamore St. Baisley Ave. and Ft. Schuyler Rd.

N. J., Newark—(Official)—Until Nov. 1, by Bd. Street and Water Comrs., sewer in Sandford Ave., involving 500 ft. 30 in. concrete pipe sewer, 240 ft. vitr. salt glazed pipe sewer, 12 catch basins and 5 manholes. M. R. Sherrard, city engr. Noted Oct. 11.

Wis., Appleton—(Official)—Until Nov. 2, by Bd. Pub. Wks. building sewers in various streets. A. C. Remley, city engr. Noted Sept. 20.

Ia., Grand Mound—(Official)—Until Nov. 1, by Town, for 2½ mi. sanitary sewers and sewerage disposal plant. R. C. Quinn, town clk. C. P. Chase, Clinton, engr. Noted Apr. 26.

N. D., Langdon—See "Water-Works."

Wyo., Cheyenne—Until Nov. 5, by J. J. Showalter, city clk., extending sewers from O'Neil to Dillon St. E. W. Glafcke, city engr. Noted Aug. 9.

Tex., Seguin—(Official)—Until Oct. 31, by C. Bruns, mayor, constructing sewerage system and sewage disposal plant. Bartlett & Raney, Inc., San Antonio, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., North Bergen—Town received low bids laying sewer in Tonnele Ave., from R. Mazzone, North Bergen; R. Reilly, Plainfield; W. Whiston, West New York; Nolan & Horning, 309 Kerrigan Ave., Union. Cost estimated at $20,000. Noted Oct. 4.

★**Pa., Pennhurst**—Eastern Pennsylvania State Institution for Feeble-Minded and Epileptic, Spring City, let contract storm sewers, to W. M. Anderson, 600 Schuylkill Ave., Phila.; about $10,000.

★**Md., Hagerstown**—City let contract installing main and lateral sewers in various streets and alleys, to H. C. Brooke Co., Inc., Martinsburg, W. Va. Noted Sept. 13.

O., Cuyahoga Falls—(Official)—City received low bids for sanitary sewers from C. L. Wright, Mt. Vernon, $16,846; Gessner Co., Toledo, $17,003; F. R. George Co., Pittsburgh, Pa., $18,441.

★**Wis., Reedsburg**—City let contract for sewer to Sweeney Bros., $27,627.

★**Ia., Ames**—(Official)—City let contract storm sewers, involving 7300 ft. 10-15 in. pipe, 13 manholes, and 47 catch basins to A. Coniglia & Co., Omaha, $10,340. Noted Oct. 11.

★**Minn., Winona**—City let contract laying 1700 ft. storm sewers to W. Danforth, 707 Germania Life Bldg., St. Paul, $35,000. Noted May 12.

★**Mo., Kansas City** — City let contract sewer in Div. No. 5, Dist. No. 356, to Kinlin Constr. Co., 3426 Michigan St., $11,684. Noted Sept. 13.

★**Okla., Ada**—City let contract lateral sewer in Dist. No. 6, involving 16,865 8-10 in. sewer pipe, to Koehler Constr. Co., Kansas City, Mo., $25,550; also complete sewage disposal plant, including Imhoff tank, contact beds, etc., to Talbert Constr. Co., Muskogee, $24,673. Noted Sept. 27.

★**Wash., Spokane** — (Official) — City let contract 4th Ward trunk sewer in Dist. No. 5, to Heikkila, Miller & Paulson, 1609 Water Ave., $11,400. Noted Oct. 18.

★**N. S., New Glasgow**—City let contract building sewer on Brookside Ave. and Chisholm St., to Gammon & Weir, Archimedes St.

BRIDGES

Proposed Work

Ky., Whitesburg — See "Streets and Roads."

Mo., Kansas City—Bd. Pub. Affairs approved plans of Kansas City Terminal Ry., 1500 Grand Ave., for building rein.-con. viaduct over its tracks on Holmes St. About $200,000. J. E. Gibson, genl. mgr.

Mo., Linn—See "Streets and Roads."

Tex., Ballinger—Runnells Co. plans to issue $100,000 bonds to build rein.-con. bridges and culverts.

Tex., Barstow—(Official)—Ward Co. at recent election voted $45,000 bond issue for culverts. F. I. Dyer, comr.

Okla., Ada—See "Streets and Roads."

Colo., Salida—Chaffee Co., Buena Vista, and State Highway Comn., Denver, soon lets contract for rein.-con. bridge over Arkansas River. About $15,000.

Idaho — (Official) — See "Streets and Roads."

BIDS DESIRED

O., Columbus—See "Miscellaneous."

Minn., Minneapolis—Until Nov. 12, by Hennepin Co. Comrs., building 800-ft. bridge over Minnesota River on Lyndale Ave. Work includes 7-mi. roadway on Hennepin Co. side and 10-mi. on Dakota Co. side. Bids will be asked on 4 types of bridges. Former bids rejected. Toltz Eng. Co., 1410 Pioneer Bldg., St. Paul, engrs. Noted Sept. 27.

Minnesota—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Rumford**—Town let contract 2-span bridge at South Rumford to J. H. Kerr, Rumford, $22,000. State and Oxford Co. to appropriate toward cost.

Bridges (Continued)

★**Mass., Millbury** — Town let contract building 2 steel and cement bridges over Blackstone River, to E. D. Ward Co., 82 Foster St., Worcester, $17,000.

★**R. I., Woonsocket**—City let contract building bridge and wall over Peters River to Eastern Constr. Co., 660 Winter St.

★**Ga., Oglethorpe**—Macon Co. Comrs. let contract building 2 rein.-con. bridges to H. H. Hoppendietzel Co., 757 Walnut St., Macon, Ga., $18,000.

★**Ind., Goshen**—Elkhart Co. and Indiana & Michigan Electric Co. let contract bridge over St. Joseph River on Elkhart Ave., to Elkhart Bridge & Iron Co., Elkhart, $61,800. Noted Aug. 2.

★**Ill., Joliet** — (Official) — Atchison, Topeka & Santa Fe Ry. let contract building 2 bridges involving 5000 yd. rein.-con., to Standish & Allan, 820 Consumers Bldg., Chicago.

★**Wis., Wauwatosa**—Town let contract building bridge and temporary bridge to Stein Constr. Co., Medford, Wis., $21,300.

★**Minn., Montevideo**—Chippewa Co. let contract building bridges No. 2776, 2777 and 2780 to T. M. Thomson, 3326 Garfield Ave., Minneapolis, $10,400.

★**Tex., Dallas** — (Official)—City let contract building bridge over Turtle Creek Crossing, on Lemmon Ave., to McCall-Moore Eng. Co., 308 Amicable Bldg., Waco, $26,500.

★**Okla., Ardmore**—Carter Co. let contract building 150-ft. rein.-con. bridge over Caddo Creek to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, Mo., $14,500.

★**Idaho, Weiser**—Washington Co. let contract building steel highway bridge over Weiser River and dismantling old bridge, to Omaha Structural Steel Works, 48th and Leavenworth Sts., Omaha, Neb., $27,800.

★**Ont., Dundas**—Dundas Co. let contract building 6 bridges to F. M. Egleson, Winchester, $12,000; 6 to H. J. Walker, Cornwall, $12,000; 2 to Ontario Bridge Co., Ltd., Toronto, $10,000.

STRUCTURAL STEEL WORK

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Idaho, Weiser**—See "Bridges."

REINFORCED CONCRETE

Proposed Work

Mo., Kansas City—See "Bridges."
Mo., St. Louis—See "Buildings."
Tex., Ballinger—See "Bridges."
Colo., Salida—See "Bridges."
Colo., Windsor—See "Miscellaneous."
Wash., Seattle—See "Industrial Works."

BIDS DESIRED

★**Minnesota**—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., S. I., Clifton**—See "Industrials."
★**N. Y., Rochester**—See "Industrial Works."
★**Ga., Oglethorpe**—See "Bridges."
★**Tenn., Nashville**—See "Buildings."
★**O., Cleveland**—See "Miscellaneous."
★**Ill., Joliet**—See "Bridges."
★**Okla., Ardmore**—See "Bridges."

STREETS AND ROADS

Proposed Work

N. J., Cliffside—Bd. Educ. plans to pave and grade high school grounds. About $10,000.

Pennsylvania—(Official)—State Highway Comn., Harrisburg, rejected bids building State Aid road in Somerset Twp., Somerset Co., 6675 ft. Noted Sept. 20.

Pennsylvania — (Official) — State Highway Comn., Harrisburg, received no bids improving 18,083 ft. state highway, Route 268, from Waynesburg to Rice's Landing, Morgan and Franklin Twps., Greene Co. Noted Sept. 20.

Pennsylvania—(Official)—State Highway Comn., Harrisburg, rejected bids building portion State Highway Route 159, through Hanover Twp., Lehigh Co., 11,857 ft. rein.-con., 16-20½ ft. wide. Noted Oct. 18.

Pa., Bloomsburg—Columbia Co. plans to improve State Rd. No. 4, through here. State Highway Dept., Harrisburg, to pay half of cost.

Pa., Carnegie—Boro. Council passed ordinance to grade, pave, and curb Chestnut St. O. B. Highley, boro. engr.

Pa., Erie—City soon lets contract paving, grading, curbing and draining portion West 29th and Holland Sts. About $24,034 and $18,310, respectively. F. G. Lynch, city engr.

Pa., Hawley—City plans to pave Church and Keystone Sts., Penn and Main Aves. E. J. Richardson, clk.

Pa., Johnstown—City election Nov. 6 to vote on $200,000 bond issue to pave streets. J. R. Crissey, city engr.

Pa., Pittsburgh—Council passed ordinance to pave and curb portions Royal and McKee Sts., Flotilla, Fletcher and Tulip Ways; also grade portion Formosa Way. R. Swan, city engr.

Pa., Williamsport—City plans to pave 2-mi. new streets. J. B. Otto, city engr.

Va., Danville—See "Industrial Works."

N. C., Louisburg — Franklin Co. voted $20,000 bonds to build roads in Gold Mine Twp. J. D. Alston, chn. Noted Sept. 20.

S. C., McCormick—McCormick Co. will let contract in spring, building 18-mi. Federal-Aid road. M. E. Worrell, co. engr.

Fla., Bartow — Polk Co. sold $142,600 bonds to build hardsurface road from Auburndale to Lake Co. line. A. T. Mann, chn. comrs. Noted May 17.

Fla., Daytona — City plans to improve several miles of streets, concrete or Warrenite. L. Smith, chn. street com.

Tenn., Camden—Benton Co. having plans prepared for paving Bristol-Memphis highway.

Tenn., Dyersburg—Dyer Co. plans election to vote on $150,000 bonds to build section Jefferson Davis Highway, to be 16 ft. wide, concrete, rock or bitumen. Federal Government to appropriate $25,000 toward cost, State $25,000. Noted Oct. 11.

Ky., Cattlesburg—Boyd Co. plans road between Ashland and Cannonsburg, 8.13-mi. Cost between $135,187 and $215,000, according to material used. Federal Government and State to pay half of cost. Noted Apr. 26.

Ky., Whitesburg—Letcher Co. soon lets contract building roads and bridges. About $30,000.

O., Chillicothe—City plans to issue $6,000,000 bonds to improve various streets. E. M. Redd, city engr.

O., Cincinnati—Butler Co. having plans prepared improving Cunningham Rd., Symmes Twp. About $20,000. A. Boeh, co. surv.

O., Columbus—City to sell $71,871 bonds Nov. 12 to improve Cory, Putnam and other streets. U. K. Stringfellow, city engr.

O., Sandusky—City plans to pave portion Hancock St. About $22,000. Erie Co. to contribute $800 toward cost. A. F. Johnston, city engr.

O., Youngstown—See "Sewers."

Wisconsin—State Highway Dept., Madison, had plans prepared building concrete road, between Fond Du Lac and Oshkosh, about 9 mi. W. Conway, Green Bay, div. engr. state highway dept.

Ia., Burlington—City had plans prepared paving portions 8th St. About $12,117. C. E. Waterhaus, city engr.

Minn., Bemidji—City election Oct. 29 to vote on $25,000 bond issue to build bridge and sidewalks, paving, curbing. G. Stein, city clk.

Minn., Brainerd—Crow Wing Co. plans to spend $100,000 to improve roads in 1918. C. L. Mott, co. engr.

Kan., Baxter Springs—City plans to pave streets in business district. About 40 blocks.

Kan., Lawrence—Douglas Co. Comrs. will apply to State Highway Comn. for approval to build hard surfaced road from Ft. Leavenworth to Ft. Riley, 18 ft. wide.

Kan., Parsons—City passed resolution to pave portion North Central Ave., vitr. fiber brick or brick block, also to resurface and oil portion 18th, Belmont, Stevens, Corning, Crawford and 22nd Aves. F. W. Frye, clk.

Kan., Wichita—Sedgwick Co. plans road from Wichita to eastern line of county, rock asphalt pavement, 18 ft. wide, 3 ft. crushed rock shoulder. About $12,500.

Neb., Falls City—City plans to issue $10,000 bonds to pave streets.

Mont., Superior—Mineral Co. plans road near Alberton, 4½ mi., eliminating Jagger Hill. About $120,000. J. D. Dwyer, clk.

Mont., White Sulphur Springs—(Official) U. S. Office Pub. Rds. will receive bids about next spring for 30 mi. mountain road, 14 ft. wide with ditch 4 ft. wide, making practically 16 ft. road, in Little Belt Mts. About $120,000. Scott Leavitt pres. Noted Oct. 11.

Mo., Greenfield—Dade Co. plans election to vote on $23,000 bond issue to improve roads between Ash Grove, Everton and Greenfield.

Mo., Jefferson City—Cole Co. plans to improve road from Moreau Blvd. to Tanner Bridge by way of Hough Park, 2 mi., macadam.

Mo., Linn—(Official)—Osage Co. defeated at recent election $200,000 bonds to build roads and bridges. Noted Sept. 27.

Mo., Marble Hill—Bollinger Co. plans to build road between Lowndes and Marble Hill, 4 mi., connecting Greenville and Cape Girardeau.

Mo., St. Louis—City plans to pave portions King's Highway. E. R. Kinsey, pres. bd. pub. wks.

Arkansas—State Highway Dept., Little Rock, had plans prepared for Mountain Home Rd., Baxter Co., to Missouri State line, 36 mi.; road in Phillips Co., connecting Helena and West Helena, 4½ mi. asphaltic concrete on macadam base, 20 ft. wide. About $140,000.

Ark., Clarendon — Monroe Co. Comrs. postponed indefinitely letting of contract for road building. Parkes Eng. Co., Citizens Bank Bldg., Pine Bluff, engrs. Noted Oct. 4.

Tex., Anson—Jones Co. Dist. No. 2, plans election soon to vote on $200,000 bond issue to build roads.

Tex., Barstow—(Official)—Ward Co. at recent election voted $80,000 bond issue for 45 mi. hard surface road. F. I. Dyer, comr. Noted Sept. 27.

Tex., Beaumont — Jefferson Co. election Nov. 17 to vote on $500,000 bond issue to improve highways.

Tex., Brownsville—Cameron Co. Comrs. plan highway from here north to Harlingen and west to Hidalgo Co. line, to be link in Diamond Loop Highway connecting San Antonio, Laredo, Corpus Christi, and this city, 32 mi. tarvia. About $200,000.

Tex., Corsicana — Powell Good Roads Dist., Navarro Co., election Nov. 10 to vote on $60,000 bonds to build roads.

Tex., Decatur—Wise Co. Comrs. will vote on $80,000 bond issue to build Meridian Highway.

Tex., Galveston—(Official)—Bd. Comrs. soon lets contracts placing 60,000 cu.yd. filling on beach crest between 25th and 39th Sts. and surfacing with 6 in. mainland soil. About $55,000. G. H. Willits, city engr. Noted Oct. 4.

Tex., Gilmer — (Official) — Upshur Co. plans election Nov. 10 to vote on $25,000 bond issue for building roads. Noted Oct. 11.

Tex., Groesbeck — (Official) — Limestone Co., Rd. Dist. No. 9, having plans prepared by Hess & Skinner, engrs., South Western Life Bldg., Dallas, for road improvements. About $100,000. Noted May 24.

Tex., Haskell—Haskell Co., Dist. No. 3, plans election to vote on $75,000 bond issue to improve roads.

Tex., Orange—Orange Co. Rd. Dist. No. 3, voted $30,000 bond issue to build shell and gravel roads. Noted Sept. 20.

Tex., Paris—City voted $20,000 bonds to improve Public Sq. and pave portion 23d St. R. G. Tyler, city engr. Noted Sept. 20.

Tex., Robert Lee—Coke Co. Comrs. plan to build highway through here. About $6,000.

Tex., Snyder—(Official)—Scurry Co. defeated $100,000 bond issue to build roads. Noted Sept. 20.

Tex., Sulphur Springs—Hopkins Co. received $50,000 Federal Aid to be applied to build State Highway No. 1, Texarkana-El Paso Rd.

Okla., Ada—City election Nov. 16 to vote on $570,000 bond issue to build good roads and bridges.

Okla., Bartlesville — Washington Co. Comrs. plan to improve 50 mi. road. About $67,000 available.

Streets and Roads (Continued)

Okla., Durant—(Official)—City Council having plans prepared by L. Varner Stinson, city engr., paving Elm St., 13,000 sq. yd. asphalt on 4 in. concrete base.

Okla., Okmulgee—City soon receives bids paving portion Cherokee St. and Oklahoma Ave., tarvia. M. N. Coles, city engr.

Idaho—(Official)—State Highway Comm., Boise, receives bids about December, grading highway between New Meadows and Grangeville, placing culverts and erecting bridges, $150,000. Noted July 5.

Idaho, Coeur d'Alene — Kootenai Co., Fourth of July Canyon, voted $25,000 bonds for newly created highway improvement district. Federal Government to appropriate $50,000 toward cost, State $50,000 and Shoshone Co., $50,000. Noted Oct. 4.

Idaho, Sand Point—Bonner Co. Comrs. election Nov. 3, to vote on $200,000 bond issue to build roads.

Idaho, Twin Falls—Twin Falls Co. plans election soon to vote on $1,000,000 bond issue to pave highway from Buhl to Hansen; also build portion East and West highway, crushed rock and gravel. O. E. Carlson, chn. Noted Sept. 6.

Ariz., Cooper Hill — Gila Co. soon lets contract building El Capitan Highway; about $85,000. Also completing Miami-Gibson Rd., and Little Walnut Rd. in Pleasant Valley.

Wash., Cheney—City voted $20,000 bonds to improve 36 blocks of pavement. Noted Oct. 4.

Wash., Davenport — Lincoln Co. Comrs. had plans prepared building 5-mi. road north of Davenport on North Star Route, including grading 26 ft. wide, and surfacing 10 ft. wide. About $25,000. Noted Oct. 11.

Wash., Kelso—Cowlitz Co. soon lets contract building Martin-Bluff-Woodland section of Pacific highway. State and Federal Government to appropriate $50,000 each toward cost of work. R. M. Gillis, engr.

Wash., Raymond — City had plans prepared for building road on north side, including grading and planking. About $18,-250. A. Hendricks, city engr.

Wash., Seattle—City plans to pave portion 6th Ave. About $37,966. A. H. Dimock, city engr.

Oregon — State Highway Comm., Salem, soon lets contract grading road between Wolf Creek and Roberts Mountain and between Mitchell and Pineville, Wheeler Co. About $12,500. County to pay $7500 of cost. H. Nunn, highway engr.

Cal., Colusa—Colusa Co. plans to issue $400,000 bonds to build road connecting Meridian with State Highway, 1½ mi.; Princeton Rd. to Maxwell; Grimes Rd. to connect with State Highway; College City to Arbuckle; Williams to Venando. J. W. Kaerth, co. surv.

Cal., El Cajon—(Official)—City election Oct. 30 to vote on $11,500 bond issue to build 20-ft. paved highway through city. L. T. Machum clk. Noted Oct. 11.

Cal., Madera—City plans to improve F St. About $66,000. E. M. Saunders, acting city clk.

Cal., Santa Ana—City plans to pave portions Bristol St., connecting city with county road. About $17,000. Property owners to pay half of cost. C. C. Bonebrake, city engr.

Ont., Dutton—Town Council will receive bids about Nov. 1, building cement walks and curbs on Main and Shackleton Sts. J. D. Blue, city clk.

BIDS DESIRED

N. Y., Brooklyn—Until Oct. 29, by L. H. Pounds, boro. pres. regulating, curbing, and paving Bway., Ave. M and West 36th St., asphalt (3 contracts).

N. Y., New York—Until Nov. 1, by D. Mathewson, boro. pres. (Bronx Boro.), paving portions Victor St. and Van Nest Ave., bituminous concrete on cement foundation.

N. Y., New York—Until Nov. 1, by C. D. Van Name, boro. pres. (Richmond Boro.), concrete sidewalks on University Pl. and Lockman Ave.

N. J., Bloomfield—Until Nov. 5, by City paving portion Cedar St. and Weaver Ave.; improving Broad, Thomas, Lawrence and 2nd Sts., including 4000 sq.yd. telford pavement, 30,000 lin.ft. curbing and sidewalks. E. Baechlin, city engr.

N. J., Jersey City — Until Oct. 30, by City Comrs., repaving Hopkins Ave., brick. C. A. Van Kuren, city engr. Noted Sept. 13.

N. J., Newark—(Official)—Until Nov. 1 by Bd. Street and Water Comrs., paving 8000 ft. Renner Ave., bitulithic pavement, 6-in. concrete base, 1700 ft. new 16 x 5 in. four-cut bluestone, etc. M. R. Sherrard, city engr. Noted Sept. 13.

Pa., Norristown—(Official)—Until Nov. 8, by W. D. Heeber, controller, Montgomery Co., paving portion Germantown Pike; advertised in this issue.

S. C., Spartanburg — Until Oct. 29, by Spartanburg Co. Highway Comm., building 12.9 mi. 20 ft. top soil on Buncombs Rd. between Woodruff and Crossanchor. R. Tull, co. highway engr. Noted July 19.

Fla., Ft. Pierce—Until Nov. 6, by St. Lucie Co. Comrs., grading and hardsurfacing 3 mi. North Bridge Rd. and 2¾ mi. South Canal Rd. P. C. Eldred, clk. M. Hallowes, Ft. Pierce, engr. Noted July 12.

Fla., Tallahassee—(Official)—Until Nov. 6, by Leon Co. Comrs., building Woodville Rd., 6 mi. Former bids rejected. B. E. Reed, co. engr. Noted Oct. 4.

Miss., Raymond—Until Nov. 1, by W. W. Downing, clk. bd. supervs., Hinds Co., grading and graveling Clinton and Raymond Rds.

Ky., Hindman—Until Nov. 22, by City, for improving various streets. About $20,000.

Ky., Prestonsburg—Until Nov. 13, by Floyd Co., for building roads. About $40,000.

O., Bryan—Until Oct. 29, by J. A. Neil, city clk., improving and paving 2 sections of Union St.

O., Lisbon—(Official)—Until Oct. 29, by Columbiana Co. Comrs., improving portion Lisbon-Bayard-Canton Pub. Rd., Hanover Twp. About $82,095. C. E. Hamilton, clk.

O., Steubenville—Until Nov. 1, by F. M. Ranck, clk. Jefferson Co., improving Shull Rd. in Mifflin Twp. and Mann Rd. in Jefferson Twp.

Ind., Kendallville—Until Nov. 23, by City, paving portions Main and Williams Sts.; also certain alleys.

Minnesota—Until Nov. 4, by State Highway Comm., 300 Shubert Bldg., St. Paul, for Minnesota Federal Aid Project No. 3, Millelacs Co., involving 35 acres clearing, 17 acres grubbing, 155,338 cu.yd. grading and side ditching, 14,662 cu.yd. off-take ditching, 21,179 cu.yd. guard rail, 4840 lin.ft. riprap, 33,459 cu.yd. gravel surfacing, reinforced concrete and corrugated metal culverts, etc. W. C. Doane, co. aud.

Minn., Minneapolis—See "Bridges."

Minn., St. Paul—Until Oct. 29, by H. W. Austin, purch. agt., improving portions Mount Curve Blvd., Roblyn Park, alley in Block 3, Carbon St., Folsom and Como Aves. O. Claussen, city engr.

Mo., Jefferson City — (Official) — Until Nov. 7, by Cole Co. Court, building change in Jefferson City and Osage Bend Rd., Sect. 29, Twp. 43, Range 11, in Gum Springs. E. F. C. Harding, co. highway engr. Noted Sept. 27.

Arkansas—Until Oct. 29, by State Highway Comm., Little Rock, building 9-mi. road in Road Impvt. Dist. No. 1, Faulkner Co., involving 37,600 cu.yd. grading, 600 lin.ft. pipe culverts, 350 cu.yd. concrete, 100 lin.ft. steel trestle.

Wash., Goldendale — Until Nov. 6, by Klickitat Co. Comrs., grading and macadamizing 16-mi. Permanent Highway No. 6, known as White Salmon-Snowden Rd.

Wash., Waterville—(Official)—Until Nov. 6, by Douglas Co. Comrs., grading, draining and surfacing with crushed rock 1½ mi. highway at Mansfield. About $10,194. Noted Oct. 11.

California—Until Nov. 5, by State Highway Comm., Sacramento, building highway in Los Angeles Co. between San Fernando and Tejunga, 10-mi., concrete; resurfacing road in Fresno Co., between Malaga and Fresno, 2.7-mi., asphalt; grading roads in Humboldt Co., between Garberville and Miranda, 15.6 mi.

Cal., San Diego—Until Nov. 6, by Bd. Superv., San Diego Co., building 30,074 ft. 5-in. concrete pavement, 20 ft. wide, from city limits to Camp Kearney.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Massachusetts—(Official)—State Highway Comm., Boston, let contract building section of highway in Kingston Twp. to Marshfield Constr. Co., Marshfield, $11,181.

Mass., Boston—City received lowest bid grading Grove St., West Roxbury, from Central Constr. Co., 228 Southampton St., Roxbury, $33,250.

Mass., Boston—(Official)—City received low bids building bituminous macadam road and retaining walls in Pontiac St., Roxbury, from J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $19,626; A. Baruffaldi, Parker Pl., Somerville, $19,900.

N. Y., Lawrence—(Official)—City received low bids paving Meadow Lane, 6-in. concrete pavement, 18 ft. wide, from Ganford Co., 581 Jackson Ave., Long Island City, $13,245; Both & Weston, Lawrence, $15,225; Wright & Kowalski, 667 Grove St., Jersey City, N. J., $15,783; Hastings Pav. Co., 25 Broad St., New York City, $17,837.

★N. Y., Mineola—Nassau Co. let contract improving Shore Rd., from Reid Ave. to Bayles Corner, Port Washington, to Andrew Bros., Mineola. About $15,045. Noted Oct. 18.

N. Y., New York—M. M. Marks, boro. pres., received low bids widening, regulating and laying concrete foundation in portion 38th, 43rd, 44th, 45th and 46th Sts., from A. Ferris, 672 Degraw St., Brooklyn, $38,318; Cramer & Leedecke, 114 East 52nd St., $43,036; Burnside Contg. Co., 270 Burnside Ave., $51,353; widening, regulating and repaving with wood block on concrete foundation 59th St., from 3rd to 5th Ave., (2 jobs), from W. J. Fitzgerald, 547 West 45th St., $29,762 and $20,348 respectively.

N. Y., New York—D. Matthewson, boro. pres. (Bronx Boro.) received low bids repaving Park Ave. west from East 162nd at East 165th Sts., asphalt on concrete foundation from Asphalt Constr. Co., Madison Ave. and 137th St., $10,960; Uvalde Asphalt Paving Co., 1 Bway., $11,367; Davney Asphalt Co., 52 Vanderbilt Ave., $11,622.

N. Y., Yonkers—City received low bids regulating, grading, and improving portions School St., from F. Gross, Yonkers, $19,-969; J. Cianfaglione, 41 Western Ave., $20,-000; Yonkers Contg. Co., $20,433.

★New Jersey — State Highway Comm., Trenton, will improve highway between Trenton and Camp Dix, Wrightstown, by day labor. About $70,000. Noted Sept. 20.

★N. J., Belvidere — (Official) — Warren Co. let contract dirt roads in Blairstown Twp., to Arbogast Eng. and Constr. Co., Rockdale, N. Y.; about $30,000.

★N. J., Newark—Bd. Freeholders Essex Co. let contract road improvements in Wantage and Sussex, to Franklin Contg. Co., 52 Vanderbilt Ave., New York City.

★N. J., Newton—Bd. Freeholders, Sussex Co., let contract grading Ross' Corner Sussex Rd. to Franklin Contr. Co., 52 Vanderbilt Ave., New York City, $11,537. Noted Sept. 20.

★N. J., North Bergen—Town let contract repaving Traphagen St., to W. T. S. Crichfield, 54 5th St., Hoboken. About $57,000. Noted Oct. 18.

Pennsylvania — (Official) — State Highway Dept., Harrisburg, received low bids building 13,007 ft. vitr. brick road in Manor Twp., Armstrong Co., from Rinehart Bros., 7th St., East Liverpool, O., $131,468; 2454 ft. vitr. block pavement, Bellefonte Boro., Center Co., R. B. Taylor, Bellefonte, $28,-150; Loomin & King, Central Trust Bldg., Altoona, $27,867. Noted Sept. 20.

★Pennsylvania — (Official)—State Highway Comm., Harrisburg, let contract building State Aid road from Scottdale to Greensburg, Westmoreland Co., 2540 ft., to R. Gallardi, Connellsville, $20,955. Noted Oct. 18.

★Pa., Mt. Penn—Boro. council let contract paving Perkiomen Ave., 5100 sq.yd. cement, to A. F. Header, 1607 Spring Rd., Reading. About $15,000.

★Pa., Phila.—Dept. Pub. Wks. let contract to Barber Asphalt Co., Land Title Bldg., for paving portion Dittman St., $3322; 3rd St., $4054; 9th St., $6650; Sedley Ave., $9497.

★N. C., Winston-Salem — City let contract paving boulevard to Atlantic Bitulithic Co., Virginia Ry. & Power Bldg., Richmond, Va.

Streets and Roads (Continued)

★**Ala., Athens**—City let contract paving several streets, brick, to Alabama Paving Co. Amer. Trust Bldg., macadam, to J. L. Mullarky, both of Birmingham. About $125,000 available for work. Noted Aug. 23.

★**Miss., Mendenhall** — Simpson Co. let contract gravel road from Gatesville to Harrisville and Braxton, to T. S. Taylor.

★**Ky., Frankfort**—City let contract improving Bridge, St. Clair and Main Sts., Texico asphalt, to Asphalt Maintenance Co., Chicago, $13,350.

★**Ohio**—State Highway Dept., Columbus, let contracts road work as follows: Clermont Co., Section "N-1," Milford-Hillsboro Rd., paving with waterbound macadam, 0.98 mi., to John Reulbel Constr. Co., Cincinnati, $11,317; Darke Co., Sect. "A-1," Dayton-Greenville Rd., concrete, York & Studebaker, Greenville, $59,495; Knox Co., Sect. "K," Columbus-Wooster Rd., rein.-con., 1.61 mi., to Latshaw & Stinchcomb, Fostoria, $47,431; Mahoning Co., Sect. "J," Toledo Napoleon Rd., water-bound macadam, 4.48 mi., to Smith Constr. Co., Youngstown, $53,791; Summit Co., Sect. "N-1," Cleveland-Massillon Rd., brick, 1.8 mi., to W. E. Burke & Sons, Akron, $57,853. Noted Oct. 18.

★**O., Cleveland**—City let contract improving, paving, and repaving portion Woodhill Rd., to A. M. Pejsa Paving Co., 2359 East 93rd St., $62,770, and Baldwin Bros., 560 Ross Bldg., $60,450; paving Ivanhoe Rd., grade elimination, Riley Bros., 348 Arcade, $24,252. Noted Oct. 11.

★**O., Marysville**—Union Co. let contract rebuilding Bygalia and Arbela Rd. in Washington Twp., 3.56 mi., crushed stone, to Marion Stone Co., Marion, $10,779.

★**O., Norwalk**—Huron Co. Comrs. let contract paving roads, involving 11,000 sq.yd. concrete and 9900 sq.yd. brick, to A. J. Baltes, Norwalk. About $25,159.

★**O., Upper Sandusky** — Wyandot Co. Comrs. let contract improving Parker Rd. to Baum & Ankney, Upper Sandusky. About $41,463.

★**Ind., Indianapolis** — City let contract paving portions California St., asphalt, to Marion Co. Constr. Co., 317 Amer. Central Life Bldg., $1.50 per ft.; portion Dearborn St., asphalt and stratified curb, to Amer. Constr. Co., 1201 East Georgia St., $6.78 per ft. Noted Sept. 6.

Mich., Allegan—Allegan Co. received low bid paving road in Laketown Twp., waterbound macadam, from Boves & Blanford, $59,507.

★**Ill., Cairo**—City let contract improving Paving Dist. No. 3, to E. Prosser, $26,128.

★**Ill., Elgin** — City let contract paving River St., 7450 sq.yd. brick, to Illinois Hydraulic Stone & Constr. Co., $23,161. Noted Sept. 27.

★**Ill., Granite City** — Morris Realty Co. let contract grading subdivision, 65,000 yd. to L. Rich Constr. Co., East St. Louis. About $12,000. Noted Sept. 27.

★**Ill., Ranoul**—Village let contract paving portions Chandler St., to H. K. Rhoades & Co., Lincoln, Ill. About $28,000.

★**Kan., Columbus** — (Official) — Cherokee Co. Comrs. let contract 10 mi. roads to D. E. Dorsey, Weir City, $58,227. Noted Oct. 4.

★**Mont., Billings** — (Official) — City let contract 13,360 sq.yd. paving in Impvt. Dist. No. 29, to Warren Constr. Co., Billings, $37,462. Noted Oct. 4.

★**Ark., Forest City**—St. Francis Co. let contract roads in Dist. No. 2, Part Memphis-Little Rock Highway, to Healey Constr. Co., Meridian, Miss., $121,000. Noted Aug. 23.

★**Ark., Little Rock**—(Official)—City let contract paving several streets, asphalt or concrete, to E. F. Wilcox, Kansas City, Mo. About $79,000. Noted Oct. 4.

★**Tex., Dallas**—City let contract paving portions Melba, Tyler, 12th, 8th, Beckley, and Victor Sts., to Standard Eng. Co., 113 Martin St.

Tex., Ft. Worth—City received lowest bid paving Travis Ave. from General Constr. Co., **506 F. & M. Bank Bldg., $2.05 per sq.yd.**

★**Okla., Ada**—City let contract paving portions East Main St. to Western Paving Co., 518 Terminal Bldg., Oklahoma, $1.98 per sq.yd. Noted Oct. 4.

★**Okla., Chickasha** — City let contract paving portions Main St., asphaltic concrete, to Western Paving Co., 518 Terminal Bldg., Oklahoma, $1.98 per sq.yd.

★**Idaho, Nez Perce**—(Official)—Lewis Co. let contract building 8500 ft. 16-ft. highway known as Nezperce-Green Creek highway to C. M. Payne & Co., East 724 Mission St., Spokane, Wash.; unit basis. Noted Oct. 4.

★**Ore., Portland**—City let contract paving portions Larabee and Goldsmith Sts., bitulithic, on crushed rock base, to Warren Constr. Co., Journal Bldg. About $19,490. Noted Sept. 20.

California — (Official) — State Highway Comn., Sacramento, received only bid building 12.4 mi. highway in Sonoma Co., and 7.7 mi. in Butte Co., from Municipal Impvt. Co., 803 MacDonald St., $133,111 and $56,240 respectively; low bids for 16-mi. highway in Marin Co., E. J. Tracy, Sheldon Bldg., $173,347; F. Rolandi, 550 Montgomery St., $177,347; Palmer & McBryde, Hooker & Lent Bldg., $186,625, all of San Francisco. Noted Sept. 20.

★**Cal., Los Angeles** — City let contract furnishing asphaltic cement for 1 year to Standard Oil Co., 1727 San Fernando St., $14.40 per ton packed in barrels and $12.40 per ton delivered in tank carloads. Noted Aug. 16.

★**Cal., Los Angeles** — City let contract paving portions West 1st St., bitulithic, to G. Oswald, O. T. Johnson Bldg., $213,991. Noted Oct. 11.

★**Cal., Modesto**—Bd. Supervs. Stanislaus Co. received no bids building 16.67 mi. highway. Work will be done by day labor under the direction of E. H. Annear, co. surv. Noted Sept. 27.

★**Cal., Richmond**—City let contract paving 10th St. to L. L. Page, 8th and Bissell Sts., $25,299.

★**Cal., Visalia**—Tulare Co. let contracts for county highway system as follows: Exeter-Merryman Rd., to Highway Constr. Co., Highland, $72,603; Tulare-Paige Rd., J. E. Lee, Tulare, $60,801; Dinuba-Kingsburg Rd., Isbell Constr. Co., San Diego, $84,127; Porterville-Woodville Rd., Brady & Flynn, Humboldt Bank Bldg., San Francisco, $124,971. Noted Oct. 18.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

New Jersey—New Jersey & Pennsylvania Traction Co., Hanover and Warren Sts., Trenton, granted permission by Bd. Pub. Utility Comrs. to issue $50,000 bonds to grade road from Gladstone to Pitney. G. Ettinger, ch. engr.

Kentucky—Baltimore & Ohio R.R. having surveys made for 10-mi. branch line from Esco into headquarters of Beefhide Creek, to reach coal lands. H. A. Lane, Baltimore, ch. engr.

Kentucky — Louisville & Nashville R.R. plans to double-track line from Winchester to Sinks, about 59 mi. W. H. Courtney, Louisville, ch. engr.

Kentucky—Shelbyville & Frankfort Realty Co. had plans prepared by Phillips & Beach, engrs., Real Estate Trust Bldg., Phila., for 19½ mi. interurban railway from Shelbyville to Frankfort, to be known as Frankfort-Shelbyville Interurban Line. R. Cox, Shelbyville, ch. engr.

Illinois—Chicago City Ry., Borland Bldg., Chicago, plans to issue **$2,172,000 bonds to build and extend its lines.** H. B. Fleming, ch. engr.

Missouri—St. Louis & East St. Louis Interurban Ry., D. F. Parsons, 7 Collinsville Ave., East St. Louis, Ill., genl. mgr., and St. Louis & Illinois Ry. applied to Pub. Serv. Comn. for permission to build downtown interurban loop to connect with free bridge at St. Louis.

Oklahoma—Oklahoma, Kansas & Missouri Ry. plans to extend line from Picher to Columbus, Kan. H. C. Flower, Kansas City, Mo., **pres.**

New Mexico—New Mexico Central R.R., 120 mi. long, has been purchased by Federal Export Corp., 115 Bway., New York City, who plans to electrify same or use internal combustion locomotives.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Indiana** — (Official) — Pennsylvania Lines west of Pittsburgh let contract grade revision on Michigan Division at Camden to P. T. Clifford & Son, Valparaiso.

EXCAVATION AND DREDGING

Proposed Work

O., Lorain—Dredging—See "Miscellaneous."

S. D., Sioux Falls—(Official)—Drainage—Minnehaha Co. rejected bids cleaning and deepening 10 mi. channel, D. D. Nos. 1 and 2, also cutting 2 mi. ditches, 20-ft. bottom, and straightening Big Sioux River, north of Sioux Falls; part of D. D. Nos. 1 and 2. E. H. Shonkle, co. aud. H. M. Derr, Pierre, state engr. Noted Oct. 11.

Wyo., Lovell—Ditches—See "Miscellaneous."

Mont., Billings—Irrigation—J. Pope and T. Arthur, 311 Electric Bldg., plans to spend $45,000 for building private irrigation system, Mission Valley.

Mo., Palmyra — Drainage — South River D. D. plans to spend $70,000 to improve system. B. F. Smiley, Hannibal, Mo., engr.

Cal., San Diego—Irrigation—E. Fletcher granted permission by State Water Comn. for diverting 8 second ft. direct and 12,943 acre ft. per annum storage of Escondido Creek in San Diego Co. for irrigation purposes. Work involves main canal, 2 mi. long, and diversion and rein.-con. storage reservoir dam, 140 ft. high, 400 ft. long on top and 200 ft. long at bottom, to irrigate 3600 acres in Rancho San Dieguito. About $250,000.

BIDS DESIRED

O., Cloumbus — Dredging — See "Miscellaneous."

Ind., Winamac—(Official)—Ditch—Until Nov. 3, by Pulaski Co., building Mary S. Eckman, et al. ditch, main ditch, 18,035 ft. long, involving 35,502 cu.yd. excav. Branch No. 1, 1854 ft., 2356 cu.yd. excav. Branch No. 2, 3736 ft., 4101 cu.yd. excav. R. E. Nutt, constr. comr.

Ia., Algona—Drainage—Until Nov. 2, by Bd. Supervs. Kossuth Co., building D.D. No. 152, involving 16,245 ft. 6-24 in. tile; D.D. No. 153, 38,461 ft. 6-22 in. tile; Sub D.D. No. 6, 17,650 ft. 6-22 in. tile. F. H. Beardsley, aud.

Minnesota — Ditch — See "Streets and Roads."

Minn., Redwood Falls—Ditch—Until Nov. 2, by Redwood Co., building Branch No. 25 of Co. Ditch No. 24, involving 16,000 ft. open ditch, 122,524 cu.yd. excav. About $12,252. L. P. Larson, aud.

Neb., Lincoln—(Official)—Excavation—Until Nov. 7, by Peterson & Devoe, attys., Sanitary Dist. No. 1, excavating new channel Salt Creek. W. S. Scott, 310 Little Bldg., engr.

Mo., Harrisonvile—Drainage—Until Nov. 8, by D. K. Hall, secy., Grand River D. D. of Cass and Bates Cos., building 24 mi. open ditch, involving 2,800,000 cu.yd. excav.; 10 lateral ditches involving 272,000 cu.yd. excav. G. Bird, Harrisonville, engr.

PRICES AND CONTRACTS AWARDED

N. Y., New York—Dredging—Dept. Docks and Ferries received low bid dredging at foot West 46th St., North River, from Morris & Cumings Dredging Co., 17 State St., $146,300.

★**Ga., Marietta** — Dredging — Cobb Co. Drainage Comrs. let contract dredging Big Altoona Creek to Thompson & Mosley, Inc., Atlanta, $32,500.

★**Tenn., Huntingdon**—Drainage—Carroll Co. let contract reclamation system, Rutherford Fork D. D., involving 10 mi. canals and ditches, etc., to Canal Constr. Co., Ex. Bldg., Memphis, $60,000.

★**Ky., Owensboro**—Drainage — Drainage Comrs. Daviess Co., let contract straightening Panther Creek, to McWilliams Dredge Co., 332 South Michigan Ave., Chicago, $428,902. Noted June 14.

★**Ia., Boone**—Drain—Boone Co. let contracts building Drain No. 168, involving 20,270 ft. 6-24 in. tile to Carver & Hambly, Col., Ia.; Iowa Pipe & Tile Co., 4th and Hayes St., Des Moines and McHose Sand & Tile Co., Boone. Noted Oct. 4.

★**Minn., Marshall**—Ditch — Lyon Co. let contract building Co. Ditch No. 37, to F. E. Smith, Clarion, Ia., $23,500; No. 38, to A. Henrickson, Askov, Minn., $14,174. Noted Sept. 27.

INDUSTRIAL WORKS

Proposed Work

Mass., New Bedford—Union Street Ry. Co., 814 Purchase St., plans 6- 7-story, 80 x 115-ft. brick and rein.-con. power house on Middle St. About $665,000. H. M. Hope, 185 Devonshire St., Boston, engr.

Industrial Work (Continued)

N. Y., Buffalo—Hornspeed Propelling Co., 302 Main St., recently incorporated with $2,000,000 capital stock, plans to build factory. J. A. Horne, pres.

N. Y., Buffalo—Lehigh Valley R.R. plans brick boiler house, South Ogden and Dingens Sts.; also brick boiler house, machine shop and storehouse, Ft. Tifft St. About $25,000 and $50,400 respectively. G. F. Hand, 143 Liberty St., New York City, ch. engr.

N. Y., Ithaca—Hires Condensed Milk Co., 913 Arch St., Phila., having plans prepared by W. Morrell, archt., 913 Arch St., Phila., 2-story addition to condensary here. About $50,000.

N. Y., Long Island City — Continental Varnish Co. had plans prepared by L. A. Abramson, archt., 220 5th Ave., New York City, for group of factory buildings. Varick and Johnson Aves., and Ingraham St. About $60,000.

N. Y., New York—Willoughby Garage Corp., 25 Court St., Brooklyn, having plans prepared by Cantor & Dorfman, archts., 371 Fulton St., Brooklyn, for 2-story, 92 x 154 ft. rein.-con. garage, 238-255 West 19th St. About $100,000.

N. J., Paterson—H. H. Kurkjian, 18 Bridge St., secured site on Camden St., and plans to build silk mill containing 150,000 sq.ft. floor space.

Pa., Phila.—Ft. Mifflin Shipbuilding Co. recently incorporated with $10,000,000 capital stock, plans shipbuilding plant on Delaware River, near League Island. A. Masters, pres.

Md., Cumberland—Kelly-Springfield Tire, Cook St., Akron, O., had plans prepared by S. Dieschler & Sons, engrs., Farmers Bank Bldg., Pittsburgh, Pa., for 700 x 900-ft. factory, 100 x 150-ft. machine shop, and 150 x 150-ft. power house. About $5,000,000.

Va., Danville—Dan River & Riverside Cotton Mills plan general improvements to its mills; also to mill village, including women's dormitory, sewerage and waterworks system, concrete sidewalks, fencing railway, under passes, etc. About $300,000.

Va., Roanoke—City plans election to vote on $150,000 bond issue to build 80 x 170-ft. market house. C. M. Brown, mayor.

W. Va., Huntington—United Casket Co., Huntington, recently incorporated with $150,000 capital stock, plans to build factory.

N. C., Wilmington—Chapin Sacks Mfg. Co., 1st and M Sts., plans to build ice-cream factory. About $50,000.

La., New Orleans—Marine Paint Co., 411 South Peters St., has increased its capital stock from $50,000 to $500,000, and plans factory.

La., New Orleans—Union Seed & Fertilizer Co., Hennen Bldg., plans addition to sulphuric plant. About $125,000.

La., New Orleans—Wilson & Co., Union Stock Yards, Chicago, and 816 1st Ave., New York City, plans to expend $2,000,000 to build killing and packing plant here.

O., Akron—R. B. Biscuit Co. plans to build large warehouse. Gehres & Ritchle, engrs., 335 Akron Savings & Loan Bldg., surveying site.

O., Akron—Ohio Wire Goods Mfg. Co., 1071 Bank St., increased its capital stock from $100,000 to $500,000 and plans new factory, Bank St. and North Case Ave.

O., Cleveland — City Ice Delivery Co., 1935 Euclid Ave., soon lets contract for bottling factory and office building, Madison Ave., and West 117th St. About $200,000. C. C. Conely, c/o owners, engr.

O., Cleveland—Gates Elevator Co., 3330 Bway., plans factory on Pearl St. About $100,000.

O., Cleveland — J. Heller, 2326 Lorain Ave., having plans prepared by W. Markowitz, archt., 403 United Bank Bldg., for 3-story, 30 x 135-ft. factory and store building on East 5th St. About $55,000.

O., Cleveland—Service Auto Storage Co. lets contract about Nov. 1, for 2-story 116 x 240 ft. public garage. About $100,000. A. M. Gordon, 838 Schofield Bldg., mgr. A. F. Janowitz, Permanent Bldg., archt.

Ind., Hammond — Swift & Co., Union Stock Yards, Chicago, having plans prepared by C. H. Kane, engr., for fertilizing plant to comprise group 1-story buildings. About $500,000.

Ind., Indiana Harbor—Standard Forgings Co. plans to build addition to its plant here, including machine shop. About $200,000.

Mich., Ludington—Haskall Mfg. Co., North Rowe St., plans to build new additions to plant; also install machinery. About $1,000,000.

Mich., Port Huron—Romeo Foundry Co. plans 90 x 200-ft. addition to its factory here. About $200,000. L. A. Holme, pres.

Ill., Chicago — A. Nelson Mfg. Co., 564 West Randolph St. had plans prepared for 1-story, 234 x 239 ft. auto accessories building at 2702-22 Southport Ave. About $110,000. S. N. Crowen, 30 North La Salle St., archt.

Ill., Chicago—White Eagle Brewing Co., 3755 South Racine Ave., had plans prepared by A. Rocha, archt., 1225 North Ashland Ave., 2-story bottling plant at Wall and 38th Sts. About $75,000.

Ill., Harvey—Buda Mfg. Co. plans 4-story, 80 x 260-ft. addition to its plant. J. Viles, 80 East Jackson Blvd., Chicago, pres.

Wis., Milwaukee — Milwaukee Tank Works, 851 Kinnickinnic Ave., increased its capital stock from $25,000 to $100,000; proceeds to be used for enlarging and improving plant. E. A. Bienenstock, secy.

Wis., West Allis—Economy Paper Products Co., 315 Wright St., plans to build 3-story brick factory. About $50,000.

Wis., West Bend—West Bend Aluminum Co. having plans prepared by Federal Eng. Co., archts., Stephans Bldg., Milwaukee, 3 and 1-story, 72 x 190-ft. and 50 x 60-ft. factory and warehouse. About $75,000. B. C. Zielger, secy.

Ia., Sioux City—Metz Baking Co., 410 Pearl St., receiving bids about Dec. 1, building 4-story, 60 x 132-ft. bakery. About $60,000. N. T. Vorse, 911 S & L Bldg., Des Moines, archt.

Mo., Kansas City—Riverside Storage Co., recently incorporated, plans 3 warehouses, 8 stories each. About $2,000,000. G. J. Miller, W. Volker and E. F. McElroy, incorporators.

Colo., Denver—International Rubber Co., 1569 Bway., soon lets contract, 4-story, 125 x 145-ft. factory and warehouse. About $100,000. W. L. Rice, 1608 Bway., archt.

Wash., Seattle—F. D. Black, of Black Mfg. Co., Colman Bldg., plans 4-story, 80 x 256-ft., rein.-con. factory on Rainier Ave. About $80,000.

Wash., Seattle—Sound Paper Co., of Seattle, plans to purchase a site at Everett and Lake Washington Sts., and build paper mill. About $6,000,000.

Ore., Portland—Amer. Powdered Coal Co. purchased 2½ acre site and plans to build plant. About $100,000.

Ore., Portland—Sunset Motor Co. soon lets contract for 3-story, 81 x 112-ft. brick and concrete garage, 12th Ave. and Pike St. About $60,000. I. B. Johnson, 3838 Evanston Ave., archt.

Cal., Fresno—California Raisin Growers' Assn., Rowell Bldg., plans to build warehouses and factory buildings. About $1,500,000 McDonnell & Kahn, San Francisco, engrs.

Cal., Stanislaus—Sierra & San Francisco Power Co., 58 Sutter St., San Francisco, plans to build addition to local plant. About $1,000,000.

Ont., Toronto—T. Essery, Elliott House, plans to build warehouse. About $50,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston** — Cummington Real Estate Trust let contract 3-story, 63 x 341-ft. brick and rein.-con. auto sales and service building to McDonald & Kivell, 10 High St.

★**N. Y., S. I., Clifton**—Pouch Terminal Co., 17 State St., New York City, let contract 7-story, rein.-con. warehouse to include piers and bulkheads, to be built between Clifton and Stapleton to Faribault Bldg. Corp., 21 Park Row, New York City.

★**N. Y., Rochester**—Bausch & Lomb Optical Co., 1635 St. Paul St., let contract 4-story, 120 x 400-ft. rein.-con. factory, St. Paul, Lowell and Martin Sts., to Turner Constr. Co., 244 Madison Ave., New York City. Noted Oct. 4.

★**Pa., Chester**—Phila. Electric Co. let contract 400 x 400-ft. power plant, Beach and Palmer Sts., to Stone & Webster Engr. Corp., 147 Milk St., Boston.

★**Va., Newport News** — Newport News Shipbuilding & Drydock Co. let contract factory to J. Stewart & Co., 30 Church St., New York City. About $600,000.

★**Ill., Moline**—Deere & Co., 1325 3rd Ave., let contract 1-story, 134 x 204-ft. dry kiln to P. H. Lorenz, 413 Peoples Bank Bldg. $75,000.

★**Neb., Omaha**—Hoagland Lumber Co., Keeline Bldg., and T. R. Kimball, 936 World-Herald Bldg., let contract 4-story warehouse and store building to J. C. Mardis Constr. Co., 750 Brandeis Theater Bldg. $200,000.

★**Mo., Kansas City**—Monarch Transfer & Storage Co., 31st and Highland Sts., let contract 5-story, 30 x 55-ft., brick and rein.-con. storage building and garage on 31st and Michigan Sts., to L. Breitag & Son, 3701 West Prospect Pl. About $50,000.

Ark., Little Rock—C. A. Sawyer let contract 2-story, 100 x 150-ft. brick warehouse to J. D. Johnson, 420 Johnson St. About $50,000.

★**Ore., Astoria**—Port Comm. let contract 8-story warehouse to W. Wells, Seattle, Wash., $56,913.

BUILDINGS

Proposed Work

Mass., Brockton—School—Bd. Educ. receives bids about Nov. 15 for 2-story school and assembly hall on Kenelworth Ave. About $80,000. R. P. Jackson, 145 West Elm St., archt.

N. Y., New York—Armory—City appropriated $280,000 to enlarge armory of Squadron "A," 94th and 95th Sts. and Park Ave. Pilcher & Tachau, archts., 109 Lexington Ave., prepared plans.

N. Y., New York—Hospital, etc.—Knickerbocker Hospital having plans prepared by Helmle & Corbett, archts., 190 Montague St., Brooklyn, for hospital, main building, 216 x 108 x 109 ft., garage, isolation building and nurses' home. Convent Ave. from 130th to 131st St. M. G. Foster, pres.

N. Y., Port Dickinson—High School—Port Dickinson & Ogden School Dists., having plans prepared by Jewel & Umbrect, archts., Press Bldg., Binghamton, 2-story. E. Beckwith, Fenton, trustee.

N. Y., Yonkers — Home — C. Neustatter Estate, c/o W. R. Rose, atty., 128 Bway., New York City, plans 2-story convalescents' home. About $250,000. York & Sawyer, 30 East 41st., New York City, archts.

Pa., Chester — High School — Bd. Educ. soon lets contract on revised plans for 4-story, addition. About $200,000. C. S. Adams, 2509 Arch St., Phila., archt. Noted Sept. 6.

Pa., New Castle—Hospital—New Castle Hospital plans 5-story, 44 x 146-ft. brick addition. About $125,000.

Pa., Phila.—Temple—Ancient Arabic Order Nobles of the Mystic Shrine plans to build Lu Lu temple. About $1,000,000. W. Freeland Kendrick, grand potentate.

Pa., Vandling—High and Grade School—Bd. Educ. soon lets contract, 2-story. About $50,000. G. W. Esterhent, Connell Bldg., Scranton, archt.

Va., Danville—Dormitory—See "Industrial Works."

Va., Martinsville—Store and Hotel—Hotel Henry Corp. soon lets contract, 3-story, Church and Broad Sts. About $50,000. A. Marhood, R. & C. Bldg., Bluefield, W. Va., archt.

S. C., Spartanburg—Hospital—Spartanburg Co. voted $200,000 bond issue to build hospital. W. H. Broom, superv.

Ala., Birmingham—Hospital—City plans. About $300,000. H. B. Wheelock, 17-19 Steiner Bldg., archt.

O., Canton—Hotel—Canton Real Estate Dealers, c/o T. Conner, archt., Erie Bldg., plan. About $150,000.

O., Cleveland — Library — City Library Bd., 1375 Euclid Ave., will receive bids about Nov. 1, brick, Superior Ave. and 105th St. About $50,000. O. Coltman, 10714 Deering Ave., archt.

O., Cleveland — Store — See "Industrial Works."

O., Franklin — School — Bd. Educ. had plans prepared by E. J. Mountstephen, archt., Union Bank Bldg., Dayton, brick and stone. About $100,000.

Buildings (Continued)

O., Warren—City Hall—City plans to issue $250,000 bonds to build.

O., Warren — Hotel — G. Baker, Monroe St., plans, 8-story, on High and Haron Sts. About $200,000.

Ind., Laporte—Sanitarium—Island Assn., c/o S. Von Gunten, archt., 30 North Dearborn St., Chicago, having plans prepared. 3-story, 11 x 360 ft., brick, island in Pine Lake, near here. About $300,000.

Mich., Detroit—School—Bd. Educ. plans addition to Hely School. About $50,000. C. A. Gadd, bus. mgr. Malcomson & Higginbotham, 404 Moffat Bldg., archts.

Mich., Detroit—Y. M. C. A. plans 10-story, 75 x 100-ft. building. About $300,000. C. W. Cowls, Washington and Clifford Sts., pres. A. Kahn and E. Wilby, 58-60 Lafayette St., soon receive bids.

Ill., Chicago. — Library — City plans library to be known as Henry Edward Legler Regional Library, Crawford Ave. and Monroe St. About $75,000.

Ill., Evanston—Hotel, Store and Apartment—F. M. Anderson, L. M. Nelson, and J. Lindquist, having plans prepared by R. S. De Goyler, archt., 122 South Michigan Ave., Chicago, 6 story, 170 x 264 ft. About $700,000.

Wis., Madison — Theater — Cosmodami Amusement Co., 753 Johnson St., soon lets contract 100 x 130 ft. About $125,000. Rapp & Rapp, 69 West Washington St., Chicago, archts.

Wis., Superior—School—Bd. Educ. having plans prepared by F. E. Johnson, archt., Trust Blk. About $150,000.

Ia., Sioux City—Temple—Masonic Bldg. Com. having preliminary plans prepared by Beuttler & Arnold, archts., 609 Security Bldg., 4-story, 50 x 150-ft. About $150,000. D. M. Brownlee, chn.

Ia., Story City—School—City plans $50,000 bond issue for school.

Ia., Washington — School — Bd. Educ. plans. About $200,000. Eckland, Fugard & Knapp, Moline, Ill., archts.

Minn., St. Paul—School—Bd. Educ. plans, 3-story, on 14th St. About $200,000. A. Hausler, Pioneer Press Bldg., archt.

Kan., Eldorado—Hotel and Office—C. R. Sowers, 875 Spaulding Ave., Wichita, and associates, plan, 8-story. U. G. Charles & Co., Schwirter Bldg., Wichita, archts.

Kan., Pittsburg—Hospital—Sisters of St. Joseph plan, 3-story, 50 x 138-ft., brick and rein.-con. About $100,000. G. W. Van Meter, Murdock Bldg., Wichita, archt.

Kan., Wichita — Church — University Friends congregation having plans prepared by S. S. Voight, arch., 4th Natl. Bank Bldg., brick and stone. About $50,000.

Neb., Omaha — Schools — City election Nov. 20 to vote on $2,250,000 bond issue to build schools. W. T. Bourke, 505 City Hall, secy.

Mo., Kansas City — School — Dominican Fathers had plans prepared by White & Dean, archts., 311 Bellfontaine St., 2-story, 100 x 128-ft. About $85,000.

Mo., St. Louis—Office—Finance & Mortgage Co. plans, 16-story, rein.-con., 8th and Olive Sts. About $1,400,000.

Tex., Palestine—Hospital—International & Great Northern Ry. plans. About $50,000. O. H. Crittenden, Houston, ch. engr.

Okla., Tulsa—Gymnasium—Kendall College, c/o E. P. Harwell, 1324 South Baltimore St., plans, 2-story, 100 x 150-ft., brick and rein.-con. About $100,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., archt.

Ariz., Phoenix—Hospital—Sisters' Hospital having plans prepared for new hospital to replace one recently destroyed by fire. About $100,000.

Wash., Olympia — Office — State having plans prepared. About $400,000. J. Zittle, Jamieson Bldg., Spokane, cons. archt., state capitol comn.

Wash., Seattle—Hotel—Busch Hotel Co., Jackson St. and 8th Ave., soon lets contract, 3-story addition. About $150,000. J. L. McCauley, New York Blk., archt.

Ore., Portland—School — Bd. Educ. soon lets contract Hawthorne-Buckman school. About $190,000.

Cal., Sacramento—Capitol—State plans to build. About $3,000,000.

Ont., Orillia — Hospital — Town plans. About $75,000. C. E. Grant, clk.

BIDS DESIRED

Mass., Northampton — Infirmary — Until Nov. 15, by Trustees of Smith College, 2-story, 96 x 100 ft. brick. About $80,000. Putnam & Taylor, Bement Bldg., archts.

N. J., Trenton — (Official) — Hospital — Until Oct. 29, by F. H. Bent, state archt., State House, for extension to criminal insane building at State Hospital. Noted Oct. 18.

W. Va., Charleston—(Official)—Church—Until Nov. 1, by W. E. Moore, chn. bldg. com., First Christian congregation, 1112 Virginia St., 1-story, 81 x 115-ft., stone, terra cotta brick, hollow tile, rein.-con., structural steel. About $65,000. W. H. St. Clair, Capitol and Quarrier Sts., archt. Noted Oct. 11.

O., Cleveland Heights—(Warrensville P. O.)—School—Until Nov. 1, by Bd. Educ., 2-story. About $180,000. D. E. Carpenter, 34 Leader-News Bldg., Cleveland, pres. F. Warner, 718 Hippodrome Bldg., Cleveland, archt. Noted July 19.

Mich., Detroit—(Official)—Schools—Until Nov. 1, by Bd. Educ., (C. A. Gadd, business mgr., 50 Bway.), building Nellie Leland School, Russell and Catherine Sts.; also addition to Greusel School, Medbury and Moran Sts.

Mo., St. Louis—Clinic—Until Oct. 30, by E. R. Kinsley, pres. bd. pub. wks., 208 New City Hall, 4-story. About $190,000. Noted Oct. 18.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Binghamton—Schools—Bd. Educ. received lowest bid for Bevier St. school, from Schaeffer Constr. Co., Peoples Constr. Bldg. About $56,970.

★**N. Y., New York**—Clubhouse—Knights of Pythias let contract, 2½-story, 70 x 200-ft. brick, on East 149th St., to Jardin Co., 507 5th Ave.

★**N. Y., New York**—Store—Ford Motor Co., 1723 Bway., let contract 6-story, 30 x 55 ft. at Bway. and 54th St. About $300,000.

★**N. J., Morristown**—Hospital—All Souls Hospital, Mt. Kemble St., let contract, 3 story, 41 x 170 ft. brick, to J. McKeefrey, 1416 Bway., New York City. About $100,000.

★**N. J., Newark**—Church—St. Casimir's congregation, c/o Rev. F. P. Knappek, 164 Nichols St., let contract 2-story, 75 x 158-ft., to Gunn-Va Dale Co., 31 Clinton St., $100,000.

W. Va., Wheeling—Fire House—City received low bid, at Dam No. 24, Ohio River, from Pitt Constr. Co., Fulton Bldg., Pittsburgh, $56,000.

★**La., New Orleans** — School — Turo-Shakespeare Almhouse let contract, 2-story, 60 x 180-ft., brick, to J. Geary, Perrin Bldg. About $56,000.

★**Tenn., Nashville** — Library — Peabody College let contract, 3-story, to Foster-Creighton Co., 4th and 1st Bl. About $180,000. Noted Apr. 5.

★**Tenn., Nashville**—Sunday-School—First Presbyterian congregation let contract 3-story; 80 x 80-ft. rein.-con. addition, to F. Proctor Co., Nashville. About $70,000.

★**O., Cleveland Heights** — (Warrensville P. O.)—Home—Montefiore Home for Aged and Infirm Israelites let contract, 2 and 3 story, 160 x 122 ft., to A. H. Hansen, 2413 East 93rd St. About $150,000. Noted Aug. 30.

★**Ind., South Bend**—Hospital—St. Joseph's Hospital let contract, 3-story, 41 x 100 ft., to Larson & Danielson, Laporte. About $100,000.

★**Mich., Flint**—Hotel—Citizens Hotel Co. let contract, 6-story, 150 x 195 ft., to W. E. Wood, Ford Bldg. About $700,000.

★**S. D., Brookings**—Administration—Agricultural College, c/o Regents of Educ., let contract addition to A. H. Wold Constr. Co., Brookings, $100,000.

Mont., Havre — Mercantile — Ryan Mercantile Bldg. Co. received lowest bid from Lease & Richards, Great Falls. About $67,725.

★**Cal., Los Angeles**—Bank and Office—J. Benton Van Nuys let contract, 3-story, 60 x 155 ft. rein.-con. and brick, Spring St. to Leonard & Peck, H. W. Hellman Bldg., $50,000. Noted Sept. 20.

★**Que., Montreal** — Office — Canadian Northern Express Co., 411 Dorchester St., W., let contract to R. Rigby, Montreal. About $58,000.

★**Man., Winnipeg**—Nurses' Home—Winnipeg General Hospital, Bannatyne Ave., let contract addition to Carter-Halls-Aldinger Co., 1010 Union Bank Bldg., $90,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston— Timber Bulkhead — Bureau Yards and Docks, Navy Dept., Wash., preparing plans.

Conn., New London — Torpedo Storage Building—Bureau Yards and Docks, Navy Dept., Wash., preparing plans building at Submarine Base. About $30,000.

N. Y., New York—Extension of Pneumatic System—Bureau Yards and Docks, Navy Dept., Wash., preparing plans. About $25,000.

Pa., Phila. — Reservoir — Bureau Yards and Docks, Navy Dept., Wash., preparing plans for 2,000,000-gal. rein.-con. reservoir. About $30,000.

Pa., Phila.—Shop—Bureau of Yards and Docks, Navy Dept., Wash., soon lets contract temporary boat building shop.

Wash., D. C.—Coast Artillery Quarters—War Dept. (I. W. Littell, brig. genl.), will soon select sites and prepare plans for certain coast artillery quarters. About $28,000.

S. C., Charleston—Incinerator and Can Sterilizers—Bureau Yards and Docks, Navy Dept., Wash., preparing plans.

S. C., Charleston—Power Plant Improvements—Bureau Yards and Docks, Navy Dept., Wash., preparing plans. About $100,000.

Fla., Key West—Filling—Bureau Yards and Docks, Navy Dept., Wash., preparing plans. About $25,000.

Fla., Miami—Dredging and Filling—Bureau of Yards and Docks, Navy Dept., Wash., soon lets contract. About $20,000.

Ala., Sheffield — Nitrate Plant — War Dept., Wash., D. C. (N. D. Baker, secy.), plans, on Tennessee River near Muscle Shoals.

Cal., Mare Island—(Vallejo P. O.)—Medical Supply Depot — Bureau Yards and Docks, Navy Dept., Wash., preparing plans. About $130,000.

Cal., Mare Island — (Vallejo, P. O.) — Structures—Bureau Yards and Docks, Navy Dept., Wash., soon lets contract building structures for Submarine Base. About $110,000.

BIDS DESIRED

N. Y., Brooklyn — Shipbuilding Ways—Until Nov. 19, by Bureau Yards and Docks, Navy Dept., Wash., concrete and timber shipbuilding ways, pile foundations, at Navy Yard.

N. J., Woodbury—Post Office—Until Nov. 23, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Pa., Phila.—Tank and Tower—Until Nov. 5, by Bureau Yards and Docks, Navy Dept., Wash., building 150,000 gal. steel water tank and tower, concrete foundation, at Navy Yard. Noted Oct. 18.

Wash., D. C.—Dry Dock Crane—Until Nov. 26, by Bureau of Yards and Docks, Navy Dept., furnishing at Navy Yards, Norfolk, Va., cost, $125,000; Phila., Pa., $125,000; New York, N. Y., $100,000.

Va., Norfolk—Steel Tower—Until Nov. 5, by Bureau Yards and Docks, Navy Dept., Wash., building 200 ft. steel tower; also taking down, strengthening and rebuilding existing 200 ft. steel tower at Navy Yard. Noted Oct. 18.

W. Va., Charleston—Distributing System—Until Oct. 29, by Bureau Yards and Docks, Navy Dept., Wash., electric power distributing system. About $35,000.

W. Va., Charleston—Sewerage System—Until Oct. 29, by Bureau Yards and Docks, Navy Dept., Wash., installing at Naval Sta.

N. C., Chapel Hill — Post Office — Until Nov. 27, by J. A. Wetmore, superv. archt., treas. dept., Wash.

S. C., Charleston — Steel Tower—Until Nov. 5, by Bureau Yards and Docks, Navy Dept., Wash., building 300 ft. steel tower and reinforcing 2 existing steel towers at Navy Yard.

Federal Government Work (Continued)

Wyo., Basin—Post Office—Until Nov. 22, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Cal., San Diego—Dredging—Until Nov. 3, by U. S. Engr. Office, 725 Central Bldg., Los Angeles, dredging San Diego Harbor; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Chelsea — Hospital — Bureau Yards and Docks, Navy Dept., Wash., let contract building emergency hospital at Naval Hospital Reservation, to W. Crane, Hayward St., Cambridge, $269,900. Noted Oct. 18.

Mass., Hingham—Wall—Bureau of Yards and Docks, Navy Dept., Wash., received bids improvements to wall of slips at Naval Ammunition Depot; (a) net price, installation and removal of plant and apparatus, (b) unit price per man per day, (c) unit price per sq.ft., (d) unit price per pound for anchor bolts delivered, (e) unit price per cu.ft. Gunite in place, from Dewey Cement Gun Constr. Co., 836 Hamilton St., Allentown, Pa., (a) $1000, (b) $8, (c) 5c., (d) 32c., (e) $1.06; H. P. Converse & Co., 88 Broad St., Boston, Mass., cost plus %; H. P. Brown, 120 Liberty St., New York City, (a) $980, (b) $6 and $4, (c) 5½c., (d) $2.45.

★Conn., New London—Ordnance Buildings, etc.—Bureau Yards and Docks, Navy Dept., Wash., let contract 3 ordnance store buildings and 1 machine shop at Submarine Base, to R. H. Arnold Co., 629 Woodward Bldg., Wash., D. C., $64,174. Noted Sept. 27.

★Conn., New London—Piers and Quay Wall—Bureau Yards and Docks, Navy Dept., Wash., let contract building at Naval Sta., to Robbins-Ripley Co., 50 Church St., New York City, $159,644. Noted Oct. 18.

Conn., New London—Power House and Machine Shop—Bureau of Yards and Docks, Navy Dept., Wash., received bids Oct. 22, power house and machine shop at Naval Sta., (work complete), from Bigelow & Nichols, 45 East 42nd St., New York City, $150,430; Durolithic Co., 460 Ellicott Sq., Buffalo, N. Y., $182,000; Casper Ranger Constr. Co., 20 Pine St., Holyoke, Mass., $193,680; T. J. Pardy Constr. Co., 15 Fairfield Ave., Bridgeport, Conn., $198,685. Noted Oct. 11.

★N. Y., New York—Bureau Yards and Docks, Navy Dept., Wash., let contract temporary storehouse for ordnance dock to J. Thatcher & Son, 60 Park Ave., Brooklyn, $101,483.

★N. J., Newark — Terminal Facilities—Bureau Yards and Docks, Navy Dept., Wash., let contract, including barracks, storehouses, etc., at Port Newark, to McArthur Bros., 120 Bway., New York City, at cost plus percentage basis, approximately, $15,000,000.

Pa., Phila.—Dispensary—Bureau Yards and Docks, Navy Dept., Wash., received low bids building at Navy Yard, (a) work complete, (b) alternate, from McCloskey & Bahl, 16 Thomson St., (a) $31,247, (b) $31,097; Evans Constr. Co., 9 South 18th St., (a) $33,500, (b) $33,500; Lam Building Co., 1001 Wood St., (a) $33,600, (b) $33,250. Noted Sept. 20.

Pa., Phila. — Heating [illegible]m — Bureau Yards and Docks, Navy Dept., Wash., received low bids installing in foundry (work complete), from Enterprise Steam Heating Co., 600 North Howard St., Baltimore, Md., $68,680; Mathis Bros. Co., Archer Ave., and Canal St., Chicago, $74,435; C. J. Doyle, 2056 Pine St., $75,800. Noted Oct. 18.

★Md., Annapolis—Radio Tower—Bureau Yards and Docks, Navy Dept., Wash., let contract additional tower, to Austin Co., 1026 Bulletin Bldg., Phila., cost plus percentage, (supplemental agreement).

★Md., Indian Head — Laboratory—Bureau Yards and Docks, Navy Dept., Wash., let contract to Richardson & Burgess, Inc., 616 Colorado Bldg., Wash., D. C., $4500. Noted Oct. 18.

★Wash., D. C.—Condensers and Pumping Equipment—Bureau Yards and Docks, Navy Dept., Wash., let contract, furnishing at various navy yards, as follows: Items 3, 4, 5, 6, 9, 10, 12, 13, 16, 17, 18, 26, 27, 28, 29, 48, 49, 53, 54, 55, 56, to Alberger Pump & Condenser Co., 140 Cedar St., New York City, $48,300; Items 37, 38, 42, 43, to Westinghouse Electric & Mfg. Co., Hibbs Bldg., $38,242; Items 7, 15, 20, 22, 24, 25, 31, 32, 33, 35, 52, 57, to E. J. Smith, 30 Church St., New York City, $98,413; Items 19, 30, 36, 50, 51 to D'Oliver Centrifugal Pump & Machine Co., Morris Bldg., Phila., $32,960; Items 1, 8, 11, 46, 47, to A. S. Cameron Steam Pump Wks., 11 Bway., New York City, $23,560. Noted Oct. 4.

★Wash., D. C.—Mine Filling Plant—Bureau Yards and Docks, Navy Dept., Wash., let contract building at St. Juliens Creek, Va., to Boyle-Robertson Co., Evans Bldg., $296,981.

Wash., D. C. — Roadway — Bureau of Yards and Docks, Navy Dept., received bids repairs to roadway at Naval Hospital, from R. J. Beall, 612 14th St., $10,997 and R. A. Boiseau, 5909 Blair Rd., $16,400.

★Wash., D. C. (Anacostia)—Timber Seaplane Hangar—Bureau Yards and Docks, Navy Dept., let contract to Barney Hocke, Ahlers Constr. Corp., 110 West 40th St., New York City, $28,816.

★Va., Waynesboro — Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Olin Gerlach, Frostburg, Md., $33,105. Noted Sept. 13.

★Fla., Miami—Seaplane Pier — Bureau Yards and Docks, Navy Dept., Wash., let contract to St. Johns Constr. Co., Miami.

★Fla., Pensacola — Concrete Road and Culvert — Bureau Yards and Docks, Navy Dept., Wash., let contract to H. Monk, 125 South Palafox St., $16,800. Noted Oct. 18.

Miss., Gulfport—Emergency Camp—Bureau Yards and Docks, Navy Dept., Wash., received low bids, (a) work complete, (b) omitting pier, road, concrete walks, drains and electrical work, (c) construction of pier, (d) net price for work in (b), (e) electric system, from J. Griffith & Son, Chicago, (a) $349,000, (b) $29[illegible],000, (c) $9500, (d) $30,000, (e) $13,600; Paschen Bros., 111 West Washington St., Chicago, (a) $504,000, (b) $416,110, (c) $13,000, (d) $46,990, (e) $18,000; Doulutt & Williams, 1016 Hibernia Bank Bldg., New Orleans, (c) $15,900.

Miss., Gulfport—Emergency Hospital — Bureau Yards and Docks, Navy Dept., Wash., received low bids, (a) work complete, (b) gas radiation in lieu steam, from J. Griffith & Son, 112 West Adams St., Chicago, (a) $84,000, (b) $75,000; W. T. Hadlow & Co., Baldwin Bldg., Jacksonville, Fla., (a) $99,227; (b) $90,216; Paschen Bros., 111 West Washington St., Chicago, (a) $136,000, (b) $120,000. Noted Oct. 18.

★Mich., Bad Axe — Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Northern Constr. Co., 421 Milwaukee St., Milwaukee, Wis., $45,628. Noted Oct. 18.

★Ill., Flora—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract, on Main St., to H. F. Pixley, 1st Natl. Bank.

★Ill., Great Lakes—Radio Building—Bureau Yards and Docks, Navy Dept., Wash., let contract distant control radio building to O. Sandstrom, 127 Genesee St., Waukegan, $4173.

★Cal., Mare Island—(Vallejo P. O.)—Paint Shop—Bureau Yards and Docks, Navy Dept., Wash., let contract to Knowles & Matthewson, Call Bldg., San Francisco, $56,970.

★Cal., San Francisco—Wharf—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract rebuilding west wing of wharf at Quarantine Sta., Angel Island to Thomson Bridge Co., 102 Main St., $25,900; time, 5 months. Noted Oct. 11.

★Cal., Tiburon—Building—Bureau Yards and Docks, Navy Dept., Wash., let contract building quarters for marine guard, to C. L. Wold & Co., 75 Sutter St., San Francisco, $8498. Noted Oct. 11.

★H. T., Kuahua—Mine Storage Building—Bureau Yards and Docks, Navy Dept., Wash., let contract, steel and frame, at Naval Ammunition Depot, (work complete), to Walker & Young, 2 Merchant St., Honolulu, $53,000. Noted Oct. 11.

★P. R., El Cayey—Radio Towers—Bureau Yards and Docks, Navy Dept., Wash., let contract building 3 600 ft. radio towers to Pittsburg Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $233,985. Noted Oct. 11.

MISCELLANEOUS

Proposed Work

Elevated Railway — Brooklyn, N. Y.—Brooklyn Rapid Transit Co. plans to extend company's lines into Long Island City beginning at 2nd Ave., and 59th St., Manhattan, across Queensboro bridge, pass through Dutch Kills industrial basin and by way Greenpoint Ave. bridge reach Manhattan Ave., Brooklyn, extending to Bedford Ave., thence to Brooklyn plaza of Williamsburg bridge. F. S. Williams, 85 Clinton St., pres.

Retaining Wall—Jersey City, N. J.—Bd. Educ. plans, in rear of Dickinson High School. About $20,000.

Pier—Newark, N. J.—Bd. Wks. Comrs. plan to build new 1200-ft. pier at Port Newark Terminal. About $450,000.

Elimination Grade Crossings—Paterson, N. J.—Court of Appeals has sustained order of Pub. Utility Comrs. to compel Erie R.R. to remove Paterson grade crossings. About $6,000,000.

Pier — Phila., Pa. — (Official) — Dept. Wharves, Docks & Ferries, 552 Bourse Bldg., rejected bids building pier on Delaware River at Penn Treaty Park. G. S. Webster, dir. Noted Sept. 13.

Fencing Railway — Danville, Va. — See "Industrial Works."

Harbor Extension,, Etc.—Lorain, O.—J. C. Cromwell Steel Co. and National Tube Co. plans to extend Lorain Harbor and dredge Black River.

Dam and Spillway—Traverse City, Mich.—City plans to rebuild Boardman River dam and spillway, recently destroyed under uncertain circumstances. Loss, $50,000.

Transmission Line—Muscatine, Ia.—Iowa Ry. & Light Co. has been granted 25-year franchise by Bd. of State R.R. Comrs. to build and operate electric transmission lines on certain road and highways in Muscatine Co. R. S. Cook, Cedar Rapids, genl. mgr.

Dam, Etc.—Lovell, Wyo.—Lovell Canal Co. authorized $80,000 bond issue to build dam in Shoshone River. Ditches will also be built.

Dam—Windsor, Colo.—B. H. Eaton Ditch Co. plans to build 112-ft. rein.-con. diversion dam on Poudre River, 2 mi. northwest of Windsor.

Dam—Baton, N. M.—Maxwell Ditch & Reservoir Co. voted to spend $130,000 to rebuild Hebron Dam. J. Vail, pres.

Transmission Line — Cataldo, Idaho — Washington Water Power Co., of Spokane, plans to build 45-mi. electric transmission line from Cataldo via Fourth July Canyon to Cœur d'Alene. About $200,000. C. F. Uhden, ch. engr.

Transmission Line—Yuma, Ariz.—Southern Sierras Power Co., 611 Symes Bldg., Denver, Colo., plans to build electric transmission line from Yuma to mines of New Cornelia Copper Co. at Ajo, about 160 mi. C. O. Poole, 1st Natl. Bank Bldg., Riverside, Cal., ch. engr.

BIDS DESIRED

Pumping Machinery—Brockton, Mass.—Until Nov. 15, by Sewerage Comrs., City Hall. A. F. Nordbeck, chn.; advertised in this issue.

Piers—Buffalo, N. Y.—(Official)—Until Oct. 30, by Dept. Pub. Wks., building 4 new piers at Michigan Ave. viaduct, over New York Central R.R. tracks. A. W. Kreinheder, comr.

Duct Line—New York, N. Y.—Until Nov. 7, by Pub. Serv. Comn., 120 Bway., duct line for 7th Ave.-Lexington Ave. Rapid Transit R.R., consisting of 32 ducts extending under Westchester Ave. and Bronx

River Channel Improvements—Columbus, O.—Until Nov. 13, by G. A. Borden, dir. pub. serv., widening Scioto River, also building levees, bridges, etc.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Retaining Walls — Boston, Mass.—(Official)—See "Streets and Roads."

★Sea Wall — Quincy, Mass. — Com. on Waterways and Pub. Lands let contract, on Houghs Neck, Manet Ave., to D. F. Crowley, 658 Adams St., $20,000. Noted Aug. 30.

★Piers and Bulkheads — Clifton, S. I., N. Y.—See "Industrial Works."

★Garbage Incinerator — Waukegan, Ill.—(Official)—City let contract to J. W. Stokes, Chicago, $10,500. Noted Oct. 4.

★Foundations—Cleveland, O.—Bd. Control let contract building rein.-con. foundations for extension to lighting plant to Drummond & Miller Co., Electric Bldg., $67,000.

★Dam—Las Animas, Colo.—Bent Co. let contract building on south fork Mud Creek, 2000 ft. long, 50 ft. high, to Slick Bros. Constr. Co., Idaho Bldg., Boise, Idaho.

★Tunnel, Etc.—Los Angeles, Cal.—City let contract concrete-lined tunnel and rein.-con. and brick power house to L. Callahan, 2324 Michigan Ave., $28,793.

PAVED ROADS FOR KANSAS

With the new Kansas Road Law six months old, practically every county has organized or is preparing plans for 365-day roads. The five-year campaign for hard surfaced highway, in a state that has lagged for years, is making good headway, according to J. Frank Smith, president of the Kansas Good Roads Association to take advantage of the liberal provisions of the new state law. Most of the permanent roads contemplated—not ones that are made on paper or with a paint brush circle on telegraph poles—will receive Federal aid, which pays 15 per cent. of the cost of the road. If the present activities can be kept going it is believed that before the end of the five-year campaign fully five thousand miles of paved roads will be financed, which will include six permanent highways across the state.

These activities for hard roads are reported from these counties:

Cloud—A petition for a brick road across the county on the White way and a concrete road across the county on the Midland Trail.

Shawnee—Two petitions, one for a brick road from Topeka to Douglas County line, another concrete road between same points over another route. A paved road from Topeka to Dover, twenty miles. A petition has also been started to pave the Capital City Highway across the county.

Jackson—Circulating petition to pave Capital City Highway across the county.

Saline—Pave the Golden Belt and Meridian Road across the county. The program is to pave twenty miles a year until the campaign is finished.

Reno—Petition circulating to ask county commissioners to call an election for bonds to build 154 miles of brick road.

Allen—Promoting campaign to vote county bonds for 150 miles of paved roads. Election will probably be held before spring.

Butler—Brick road from Eldorado to Augusta.

Douglas—Petition been signed to concrete the Midland Trail.

Mitchell—Concrete road from Beloit to Simpson and brick road west from Beloit to county line.

Brown—Pave Ocean-to-Ocean Highway and King of Trails.

Bourbon—Have built 25 miles of rock road under new law.

Barton—Except one township; petition signed to brick old Santa Fe Trail.

Clay—Brick road north from Clay Center to county line.

Washington—Plans a complete county system.

Montgomery—Plans 150 miles of gravel road.

Labette—Will build 30 miles of gravel road a year until entire county system is finished.

Sedgwick—Brick road from Wichita east to county line.

Leavenworth—Brick Midland Trail.

FINISHING THE PAVING JOB AT CORPUS CHRISTI

About 12 miles, or 200 city blocks, have been paved, additional curbing has been built and storm sewers constructed on all the paved street, and practically all the street railway tracks have been relaid during the past four years in Corpus Christi, Texas, at a cost of approximately $1,250,000. In addition to this work the city is now completing what is known as the "improvements" which involved building concrete balustrades, retaining walls and terracing certain property.

Working under the plan of the city paying one-fourth of the cost and the abutting property owners three-fourths, the city in 1912 voted $150,000 for its share of the work. In 1914 it voted $50,000. In 1916, $100,000, making a total of $300,000 for street paving.

INDIANA HIGHWAY WORK

Highway building will be accentuated by the war, rather than stopped, state officials announce. Plans have been completed for the building of eight hundred miles of paved roads next year, at an estimated expenditure of nearly $3,000,000. One road will extend from the Great Lakes to the Ohio river and three roads will traverse the state from the Ohio to the Illinois lines. The Lincoln highway and the Dixie highway will be improved.

STATE HIGHWAY, CALIFORNIA

Bids were received by State Highway Comn., 505 Forum Bldg., Sacramento, for constructing state highway in Marin Co., from (A) Edmund Tracy, Sheldon Bldg.; (B) F. Rolandi, 550 Montgomery St.; (C) Palmer & McBryde, Hooker & Lent Bldg., all of San Francisco; (D) A. J. Fairbanks, Willits, $228,296. The unit bids of the 3 lowest bidders were as follows:

	A	B	C
97,000 cu.yd. excavation without classification	$1.00	$0.85	$0.95
738 lin.ft. 12-in. corrugated metal pipe	.75	.60	.80
746 lin.ft. 15-in. corrugated metal pipe	1.00	.70	.90
338 lin.ft. 18-in. corrugated metal pipe	1.50	.80	1.00
368 lin.ft. 24-in. corrugated metal pipe	2.00	1.00	1.10
78 lin.ft. 30-in. corrugated metal pipe	2.50	1.00	1.50
795 cu.yd. portland cement concrete, Class "A" (culverts and monorails)	6.00	15.00	15.00
15,700 cu.yd. portland cement concrete for pavement, Class "A"	4.00	4.80	4.90
195,000 sq.ft. reinforcement for pavement per 100 sq.ft.	.50	1.50	.30
5,225 lin.ft. guard rail	.70	.50	.50
201 each monuments	7.00	1.00	1.50
Extended totals	$173,347	$177,155	$186,626

BARGE CANAL WORK, ALBANY, N. Y.

Contract No. 164

Bids were received by W. W. Wotherspoon, supt. pub. wks., Capitol, Oct. 9, for completing construction of canal at certain locations between Lyons and Newark, also building retaining dam at Macedon, from (a) Lathrop, Shea & Henwood, Ellicott Sq., Buffalo; (b) Mohawk Dredge and Dock Co., Inc., Herkimer. The unit bids were as follows:

	A	B
130,780 cu.yd. excavation	$0.80	$1.29
2M.f.b.m. sheeting and bracing	60.00	75.00
54,600 cu.yd. forming embankment, 1st class	.18	.20
4,200 cu.yd. forming embankment, 2nd class	.14	.15
2,120 cu.yd. lining	2.40	2.00
2,550 lin.ft. foundation piles	.80	.45
4,080 sq.ft. furnishing ¼-in. steel sheet piling	1.15	1.20
2,550 sq.ft. furnishing ½-in. steel sheet piling	1.70	1.69
13,030 sq.ft. driving steel sheet piling	.25	.20
6,400 sq.ft. pulling steel sheet piling	.25	.25
1,010 cu.yd. second-class concrete	10.00	11.00
4,700 cu.yd. wash wall	2.70	3.50
37 cu.yd. relaying wash wall	1.25	1.50
310 cu.yd. fourth-class rip-rap	4.50	3.75
1,610 lin.ft. wooden fence	.45	.55
Concrete culvert (lump sum)	300.00	200.00
Cofferdams, pumping, bailing and draining (lump sum)	800.00	2,000.00
2 removing bridge superstructures	10.00	100.00
Extended totals	$159,848	$228,947

CALIFORNIA HIGHWAY WORK

At a recent meeting of the representatives from fourteen counties with the California Highway Commission at Sacramento, Cal., it was agreed to accept the plan of the commission for the expenditure of $3,000,000 appropriated by the State for the construction of seven roads. The conference decided to proceed with the work as far as the funds would permit, each county bearing its share of the expense, as far as it could be done.

The seven proposed roads have a length of 680 mi. and the estimated cost is $8,900,000. With the State's appropriation of $3,000,000 and a like amount to be provided by the counties, there is still a deficit to be cared for later. For the present the construction of the roads will proceed on the plan of dividing the expense equally between the counties and the State, using the $6,000,000 as a basis.

The following are the figures tentatively decided upon by the Commission, which the counties will be asked to approve:

Trinity lateral 102 mi., estimated cost, $1,775,000; State's portion, $393,240; county's share, $781,760.

Pacheco Pass 83.45 mi., estimated cost, $1,618,413; State's portion, $541,650, county's share, $1,076,764.

El Portal 32.45 mi., estimated cost, $533,554; State's portion, $178,560, county's share, $354,997.

Coalinga 98.25 mi., estimated cost, $1,502,538; State's portion, $448,320, county's share, $999,678.

Cholame 91.22 mi., estimated cost, $1,339,596; State's portion, $448,320, county's share, $891,275.

San Bernardino to Barstow, 76.33 mi., estimated cost, $534,112; State's portion, $178,779, county's share, $355,342.

San Bernardino to Yuma 195.86 mi., estimated cost, $2,260,462; State's portion, $756,510, county's share, $1,503,949.

The Records of the **Bridge Builders and Structural Society,** as collected by its secretary, show that during the month of September, 1917, twenty-nine (29) per cent. of the entire capacity of the bridge and structural shops of the country was contracted for.

MISSOURI PUTS CONVICTS ON ROADS

The use of convict labor for road work was begun recently in Missouri by the State Highway Department, and the first camp has been established at Mineola. The Mineola special road district had voted bonds to pay half the cost of constructing the eight-mile link of the National Old Trails road within the district. Finding it impossible to secure local labor, the district induced the county court to make application for 30 men from the state prison. Of these, 25 are employed on the road and five for cooking, laundry and camp work. The road district pays the State Prison Board $1.25 per day for each man actually engaged in road work, and the State Highway Department will reimburse the district for half this expense as the work progresses. The $1.25 covers the cost of housing, boarding and transporting the entire camp, and also includes the salary of a foreman supplied by the prison board, and the services of the cooks and other men required to maintain the camp. Only "honor men" are employed. They work without guards and do not wear prison uniform. To obtain this labor, application must be made through the county court to the State Highway Department and the State Prison Board.

DETROIT BELT DRIVEWAY COMPLETED

Opening of the outer-belt drive of the Wayne County concrete highway system was celebrated at Detroit, Oct. 11. This marked the completion of a continuous line of about 94 miles of hard road, skirting the boundaries of the county and intersecting ten radial highways which center at Detroit.